



Appl. No. 10/800,340; Attorney Docket No. 9301-228

Inventor: L. Weng

Response to August 30, 2007 Office Action

Replacement Sheet

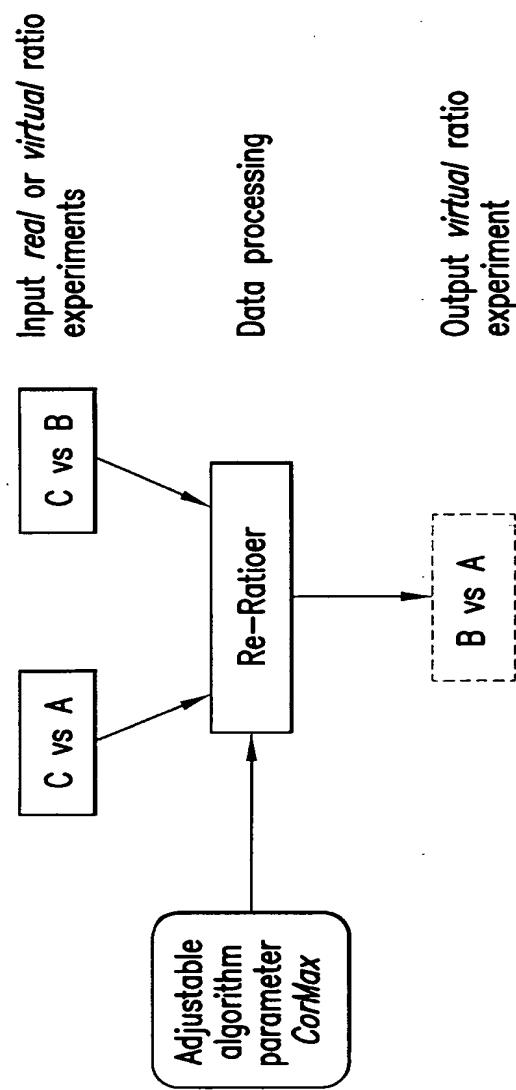
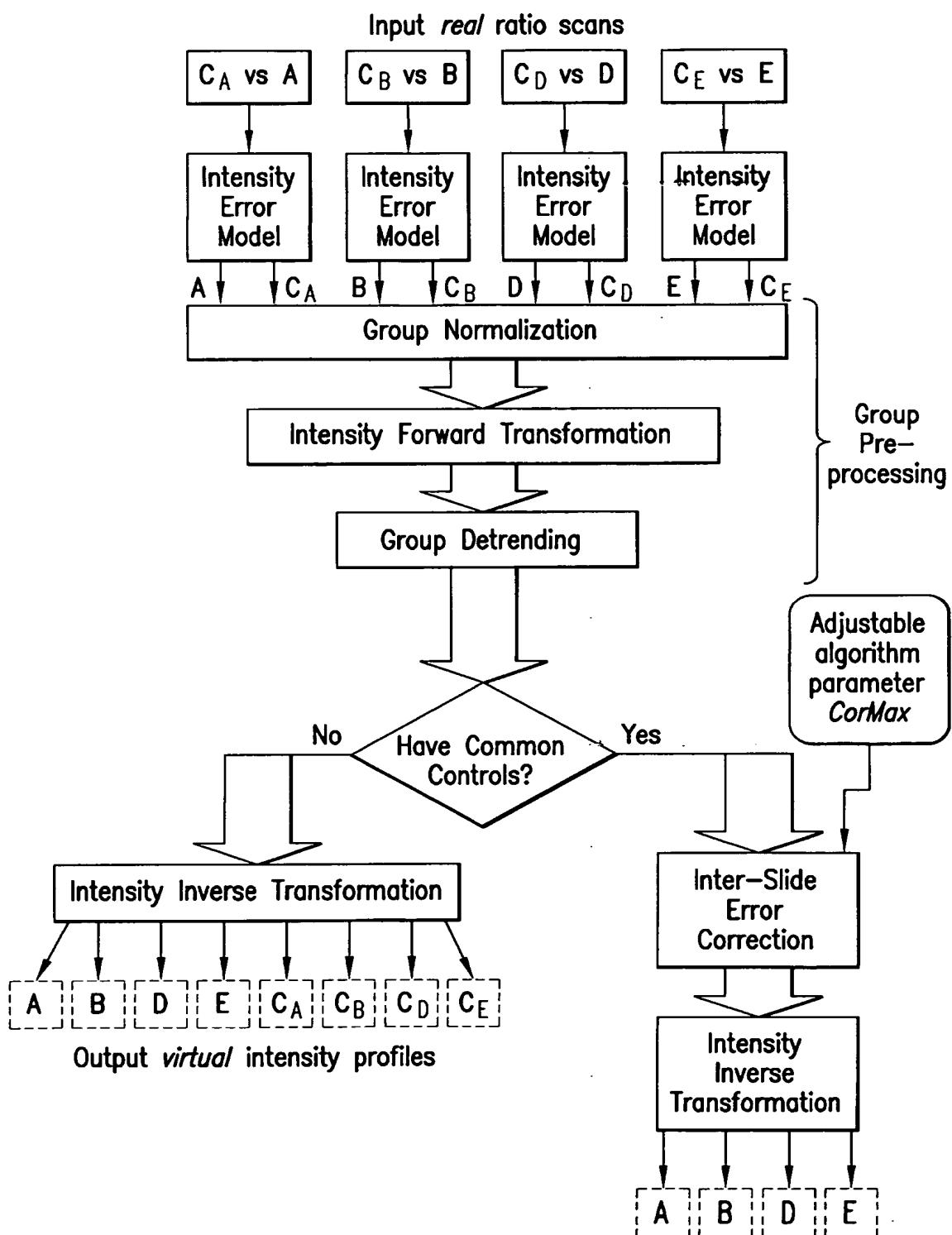


FIG. 1

Replacement Sheet

FIG.2 Output *virtual* intensity profiles

Replacement Sheet

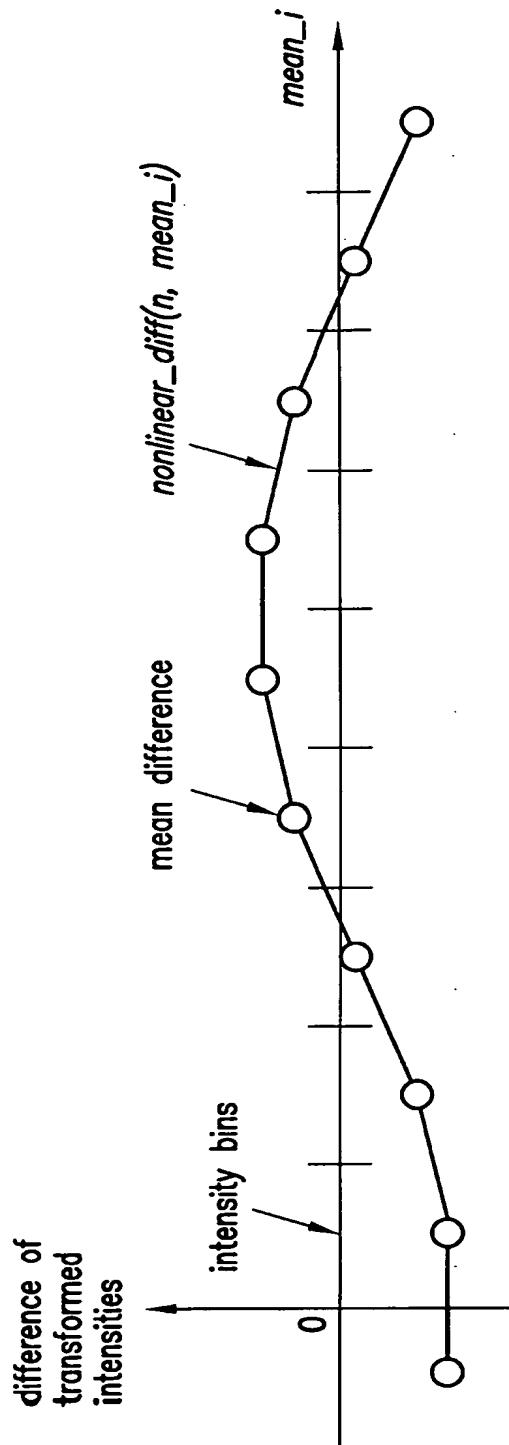


FIG. 3

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Inventor: L. Weng
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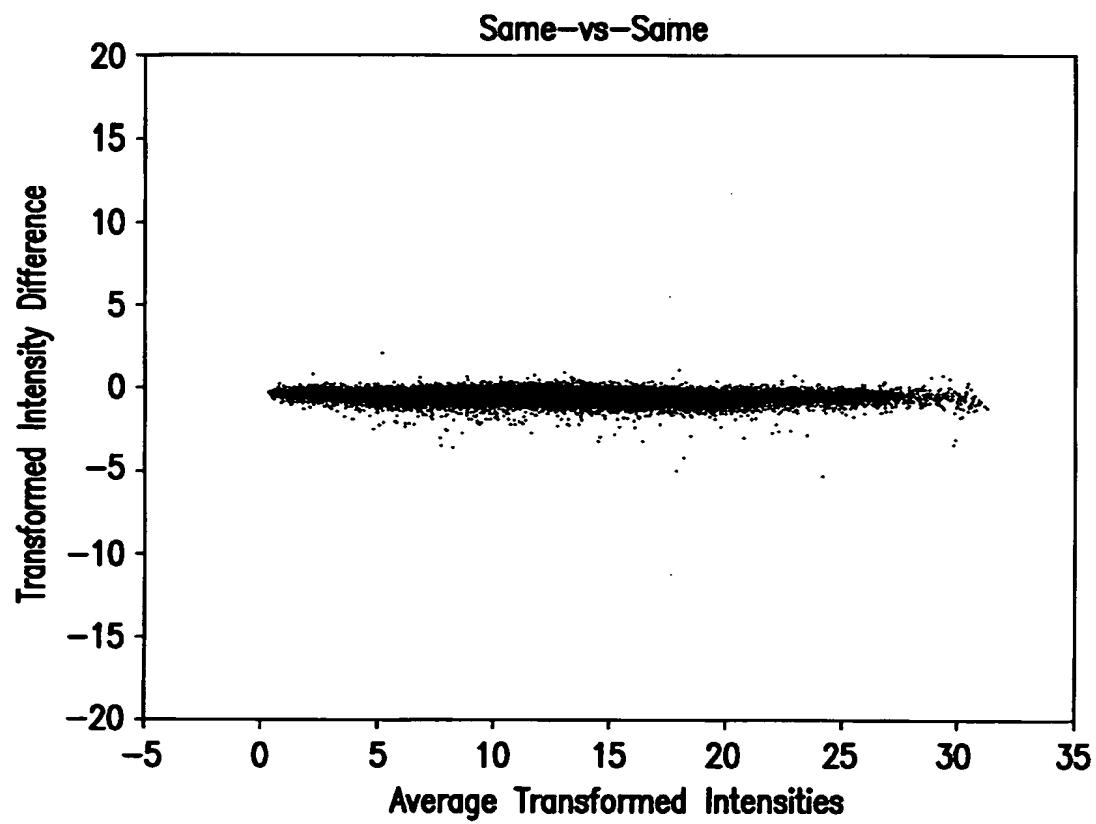


FIG.4

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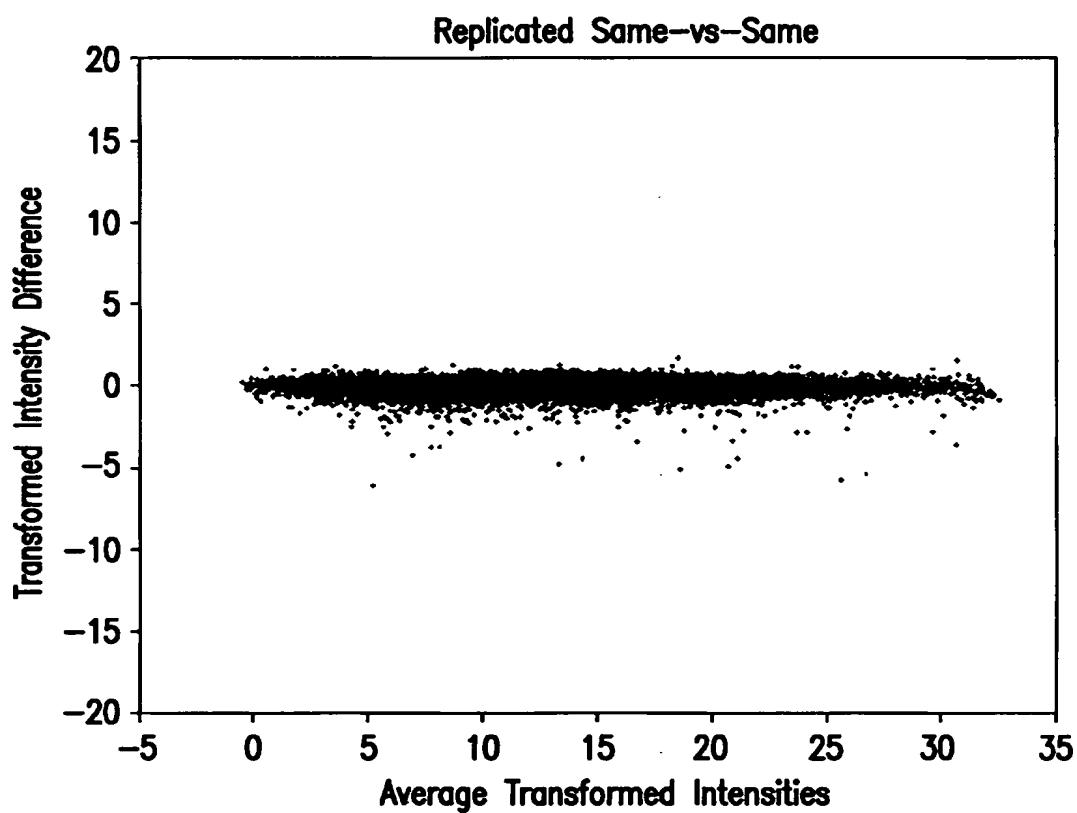


FIG.5

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Inventor: L. Weng
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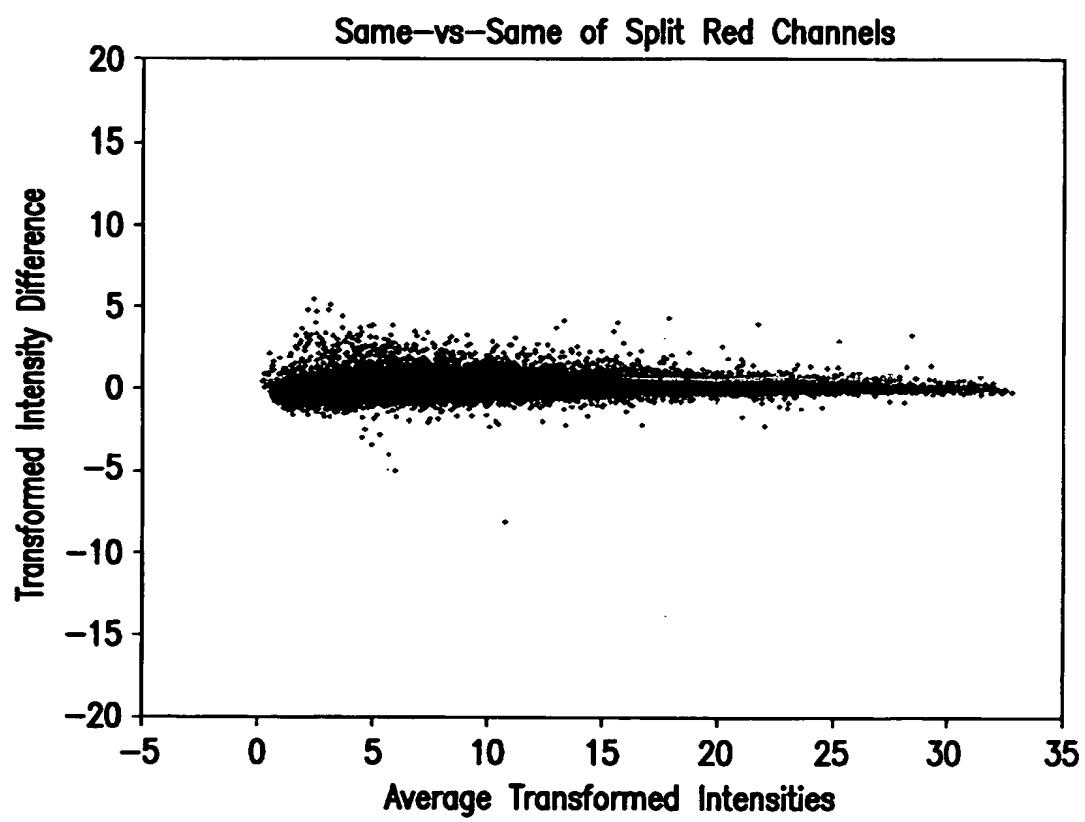


FIG.6

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Inventor: L. Weng
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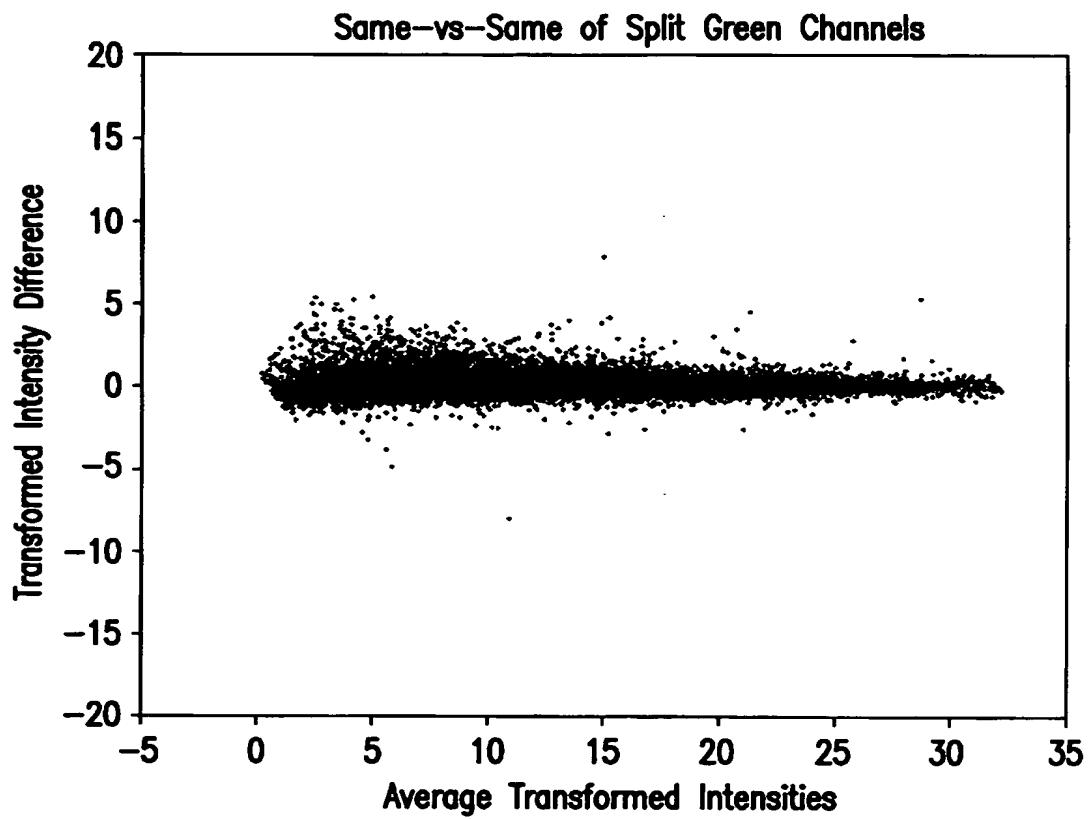


FIG. 7

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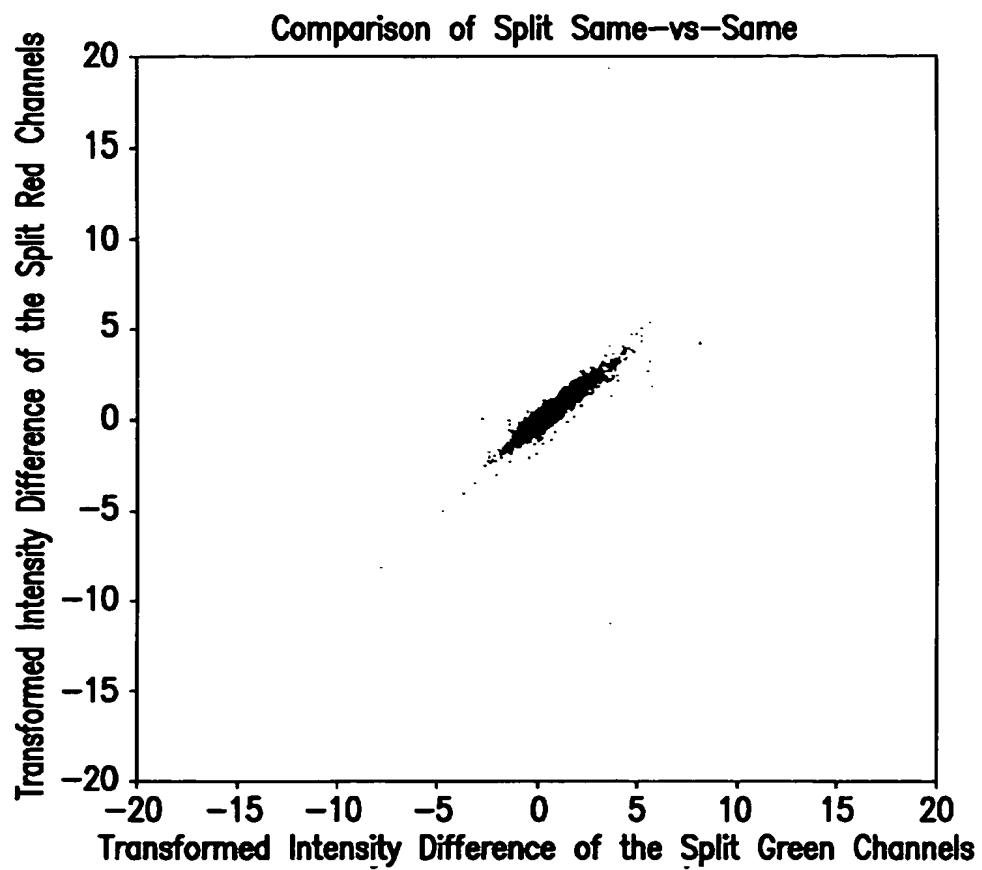


FIG.8

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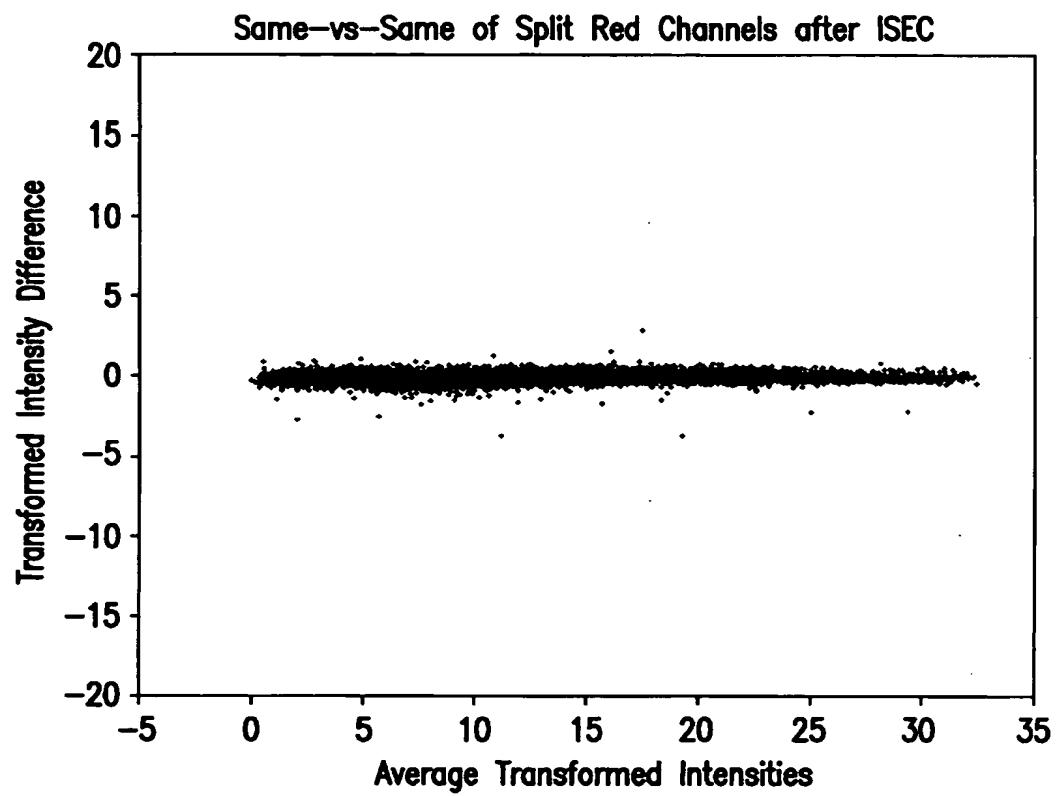


FIG.9

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Inventor: L. Weng
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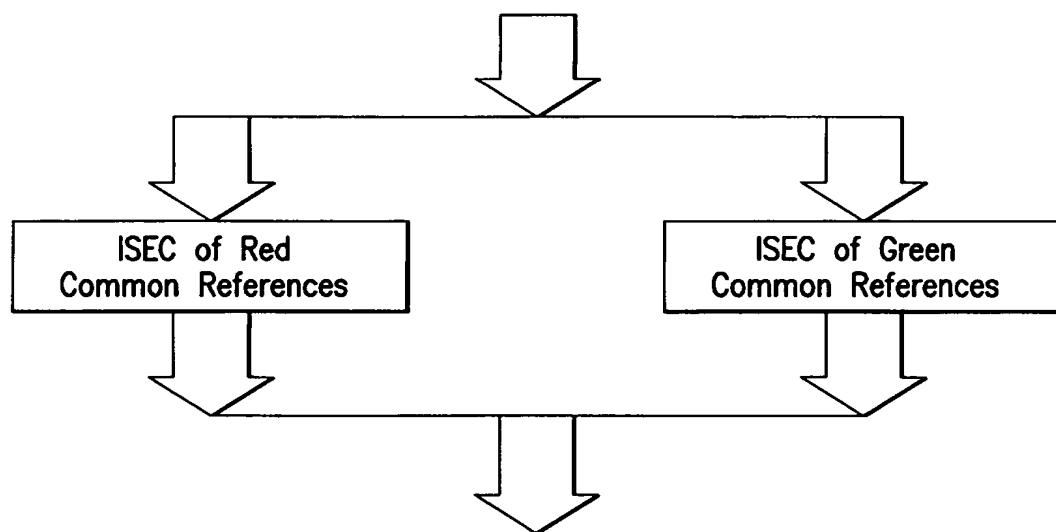


FIG. 10

Replacement Sheet

Input transformed intensity, intensity error, and background noise level

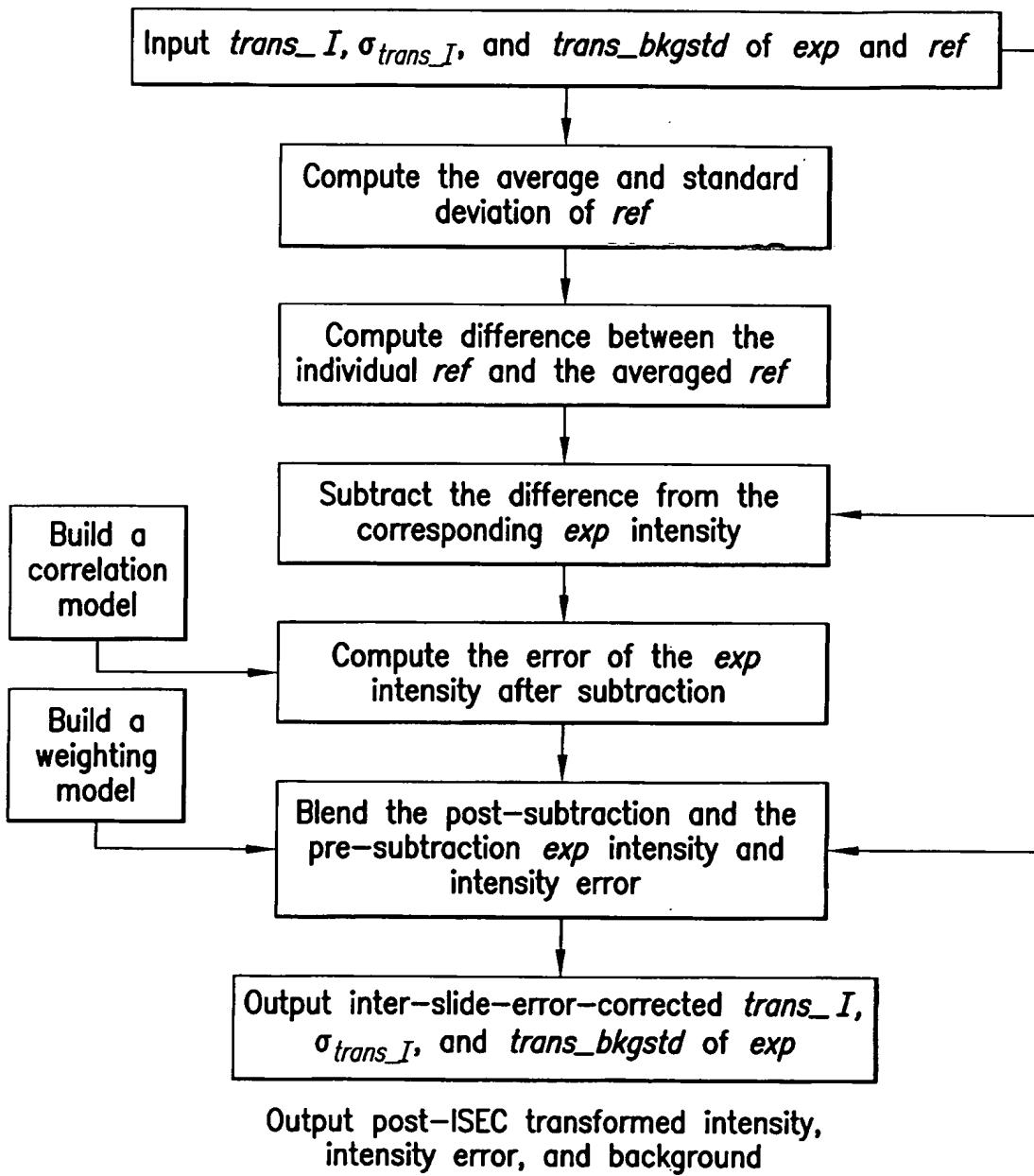


FIG.11

Appl. No. 10/800,340; Attorney Docket No. 9301-228

Inventor: L. Weng

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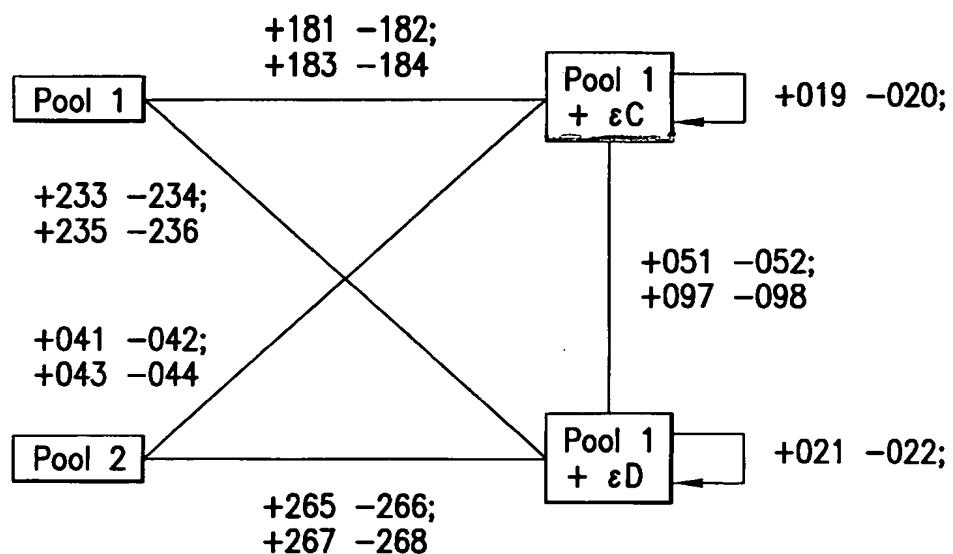


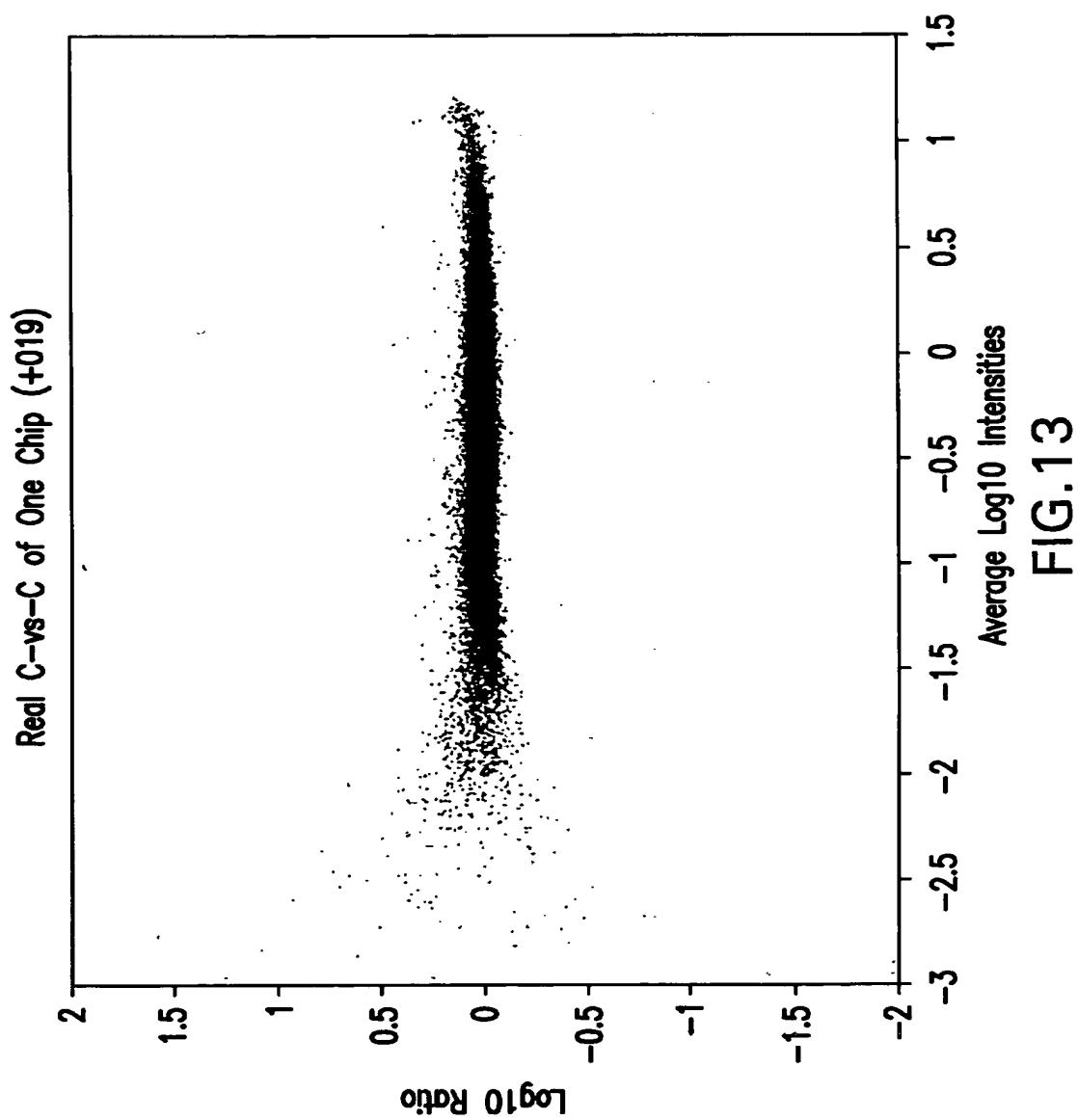
FIG. 12

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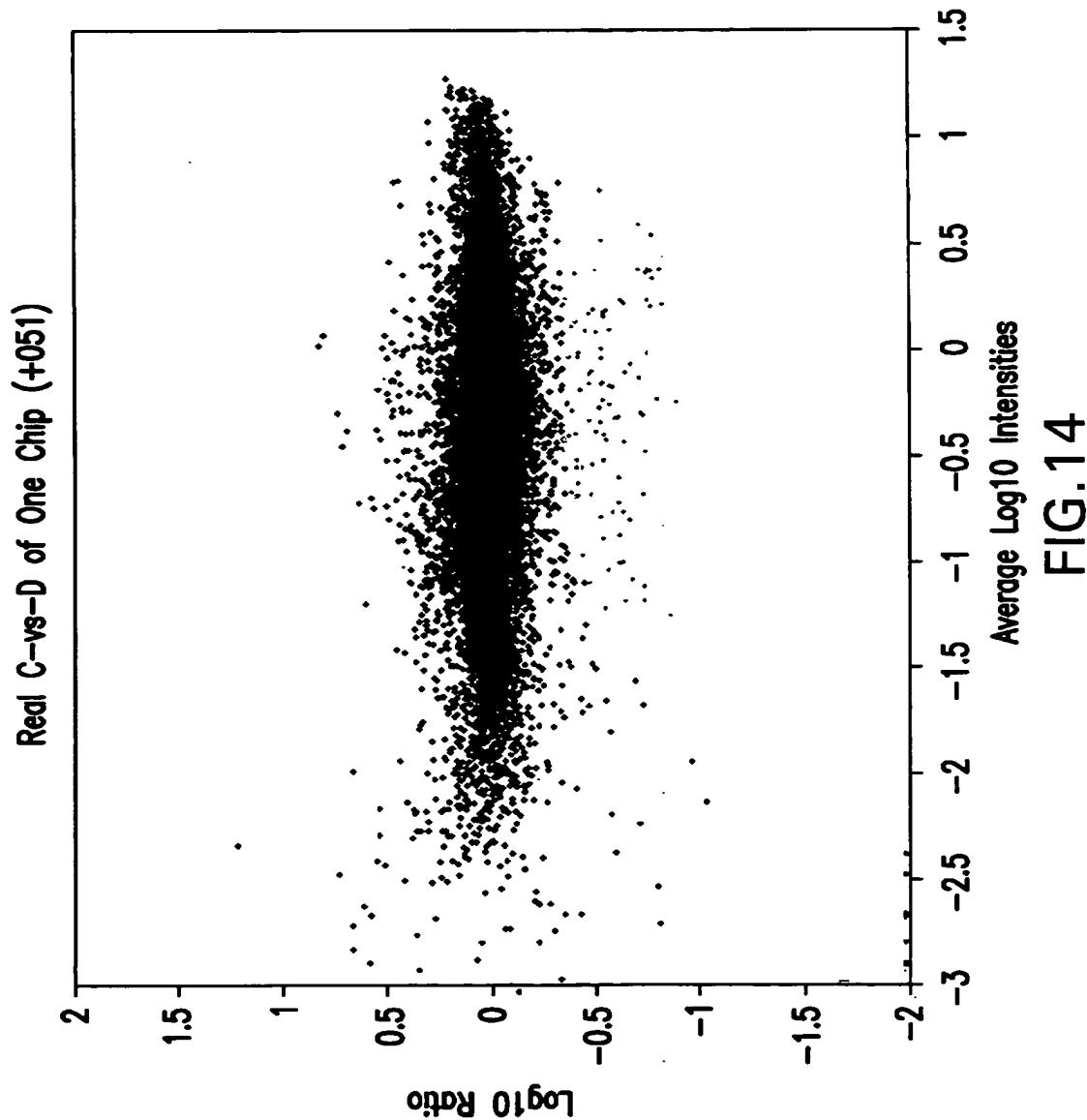
Inventor: L. Weng

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Appl. No. 10/800,340; Attorney Docket No. 9301-228

Inventor: L. Weng

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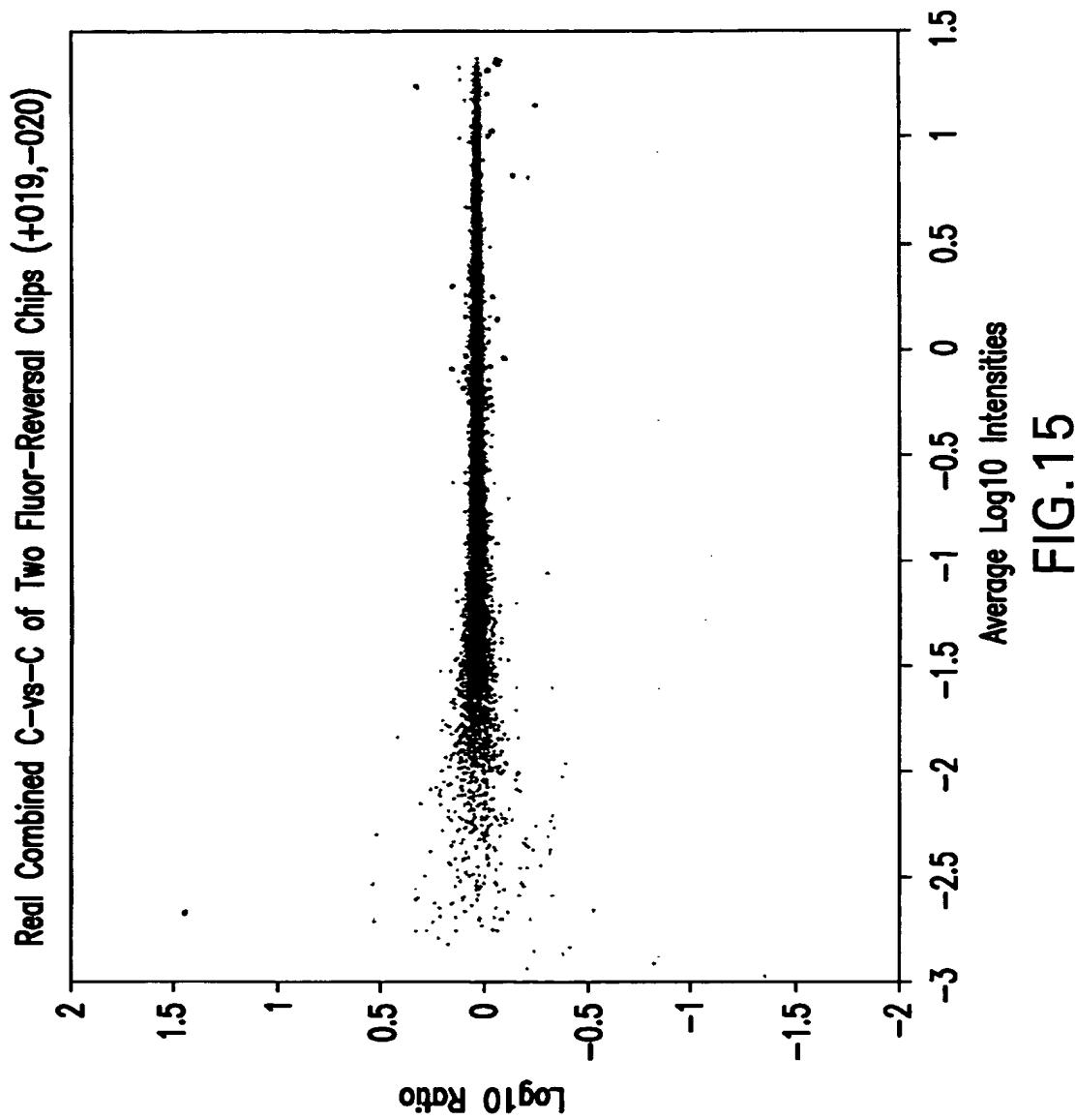


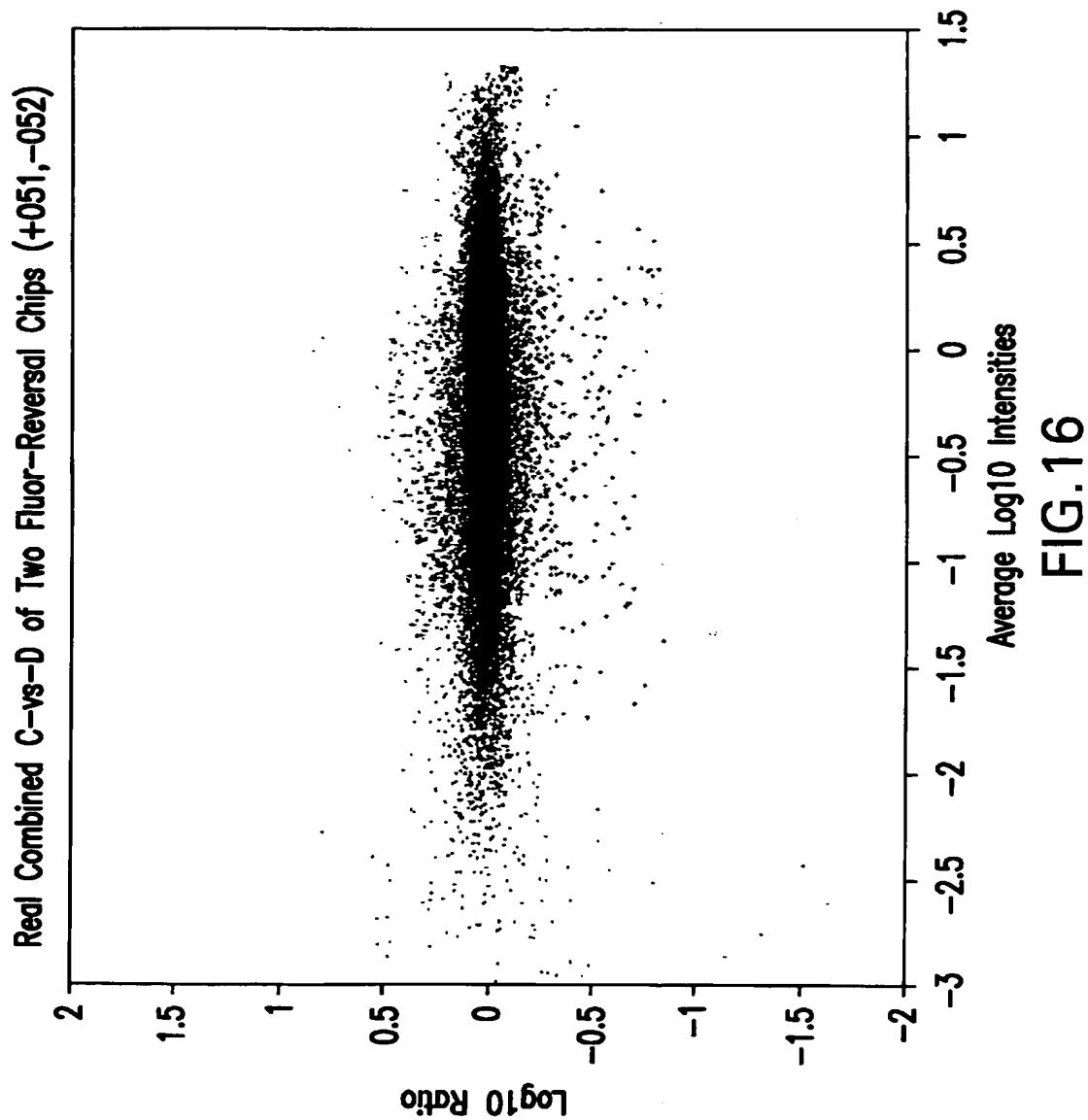
FIG. 15

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Inventor: L. Weng

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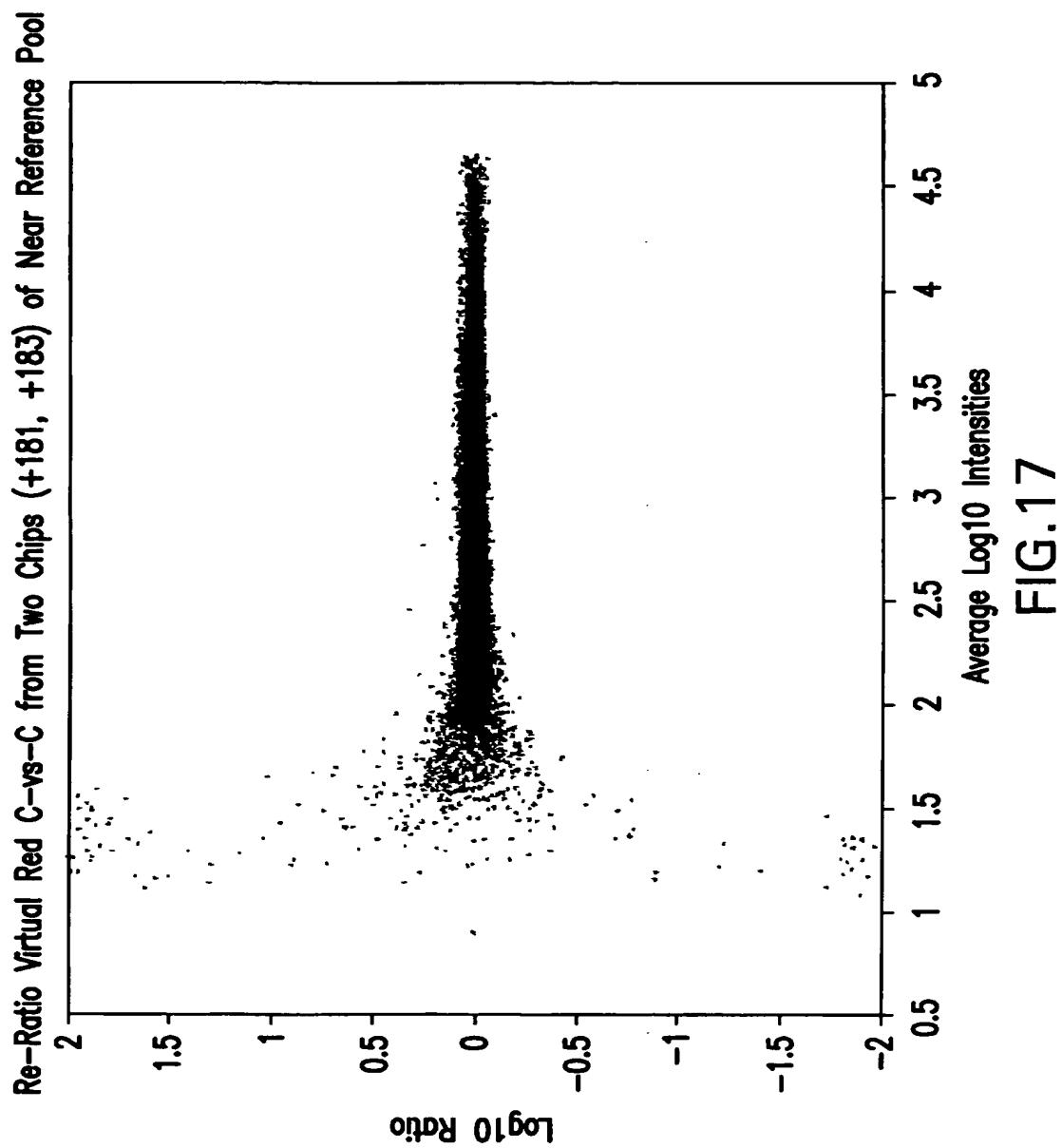


FIG. 17

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Inventor: L. Weng

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Re-Ratio Virtual of Different Color C-vs-C from Two Chips (+181, -182) of Near Reference Pool

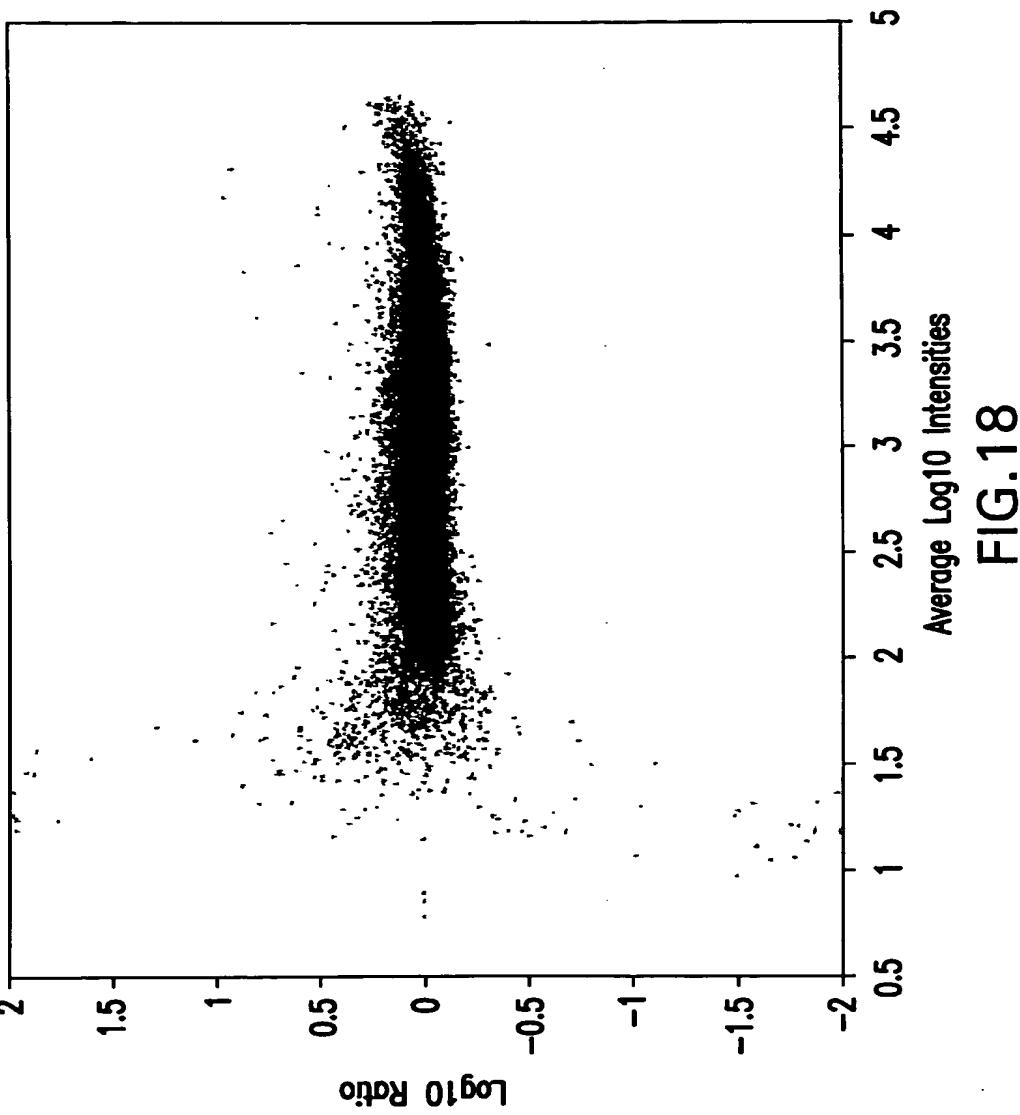


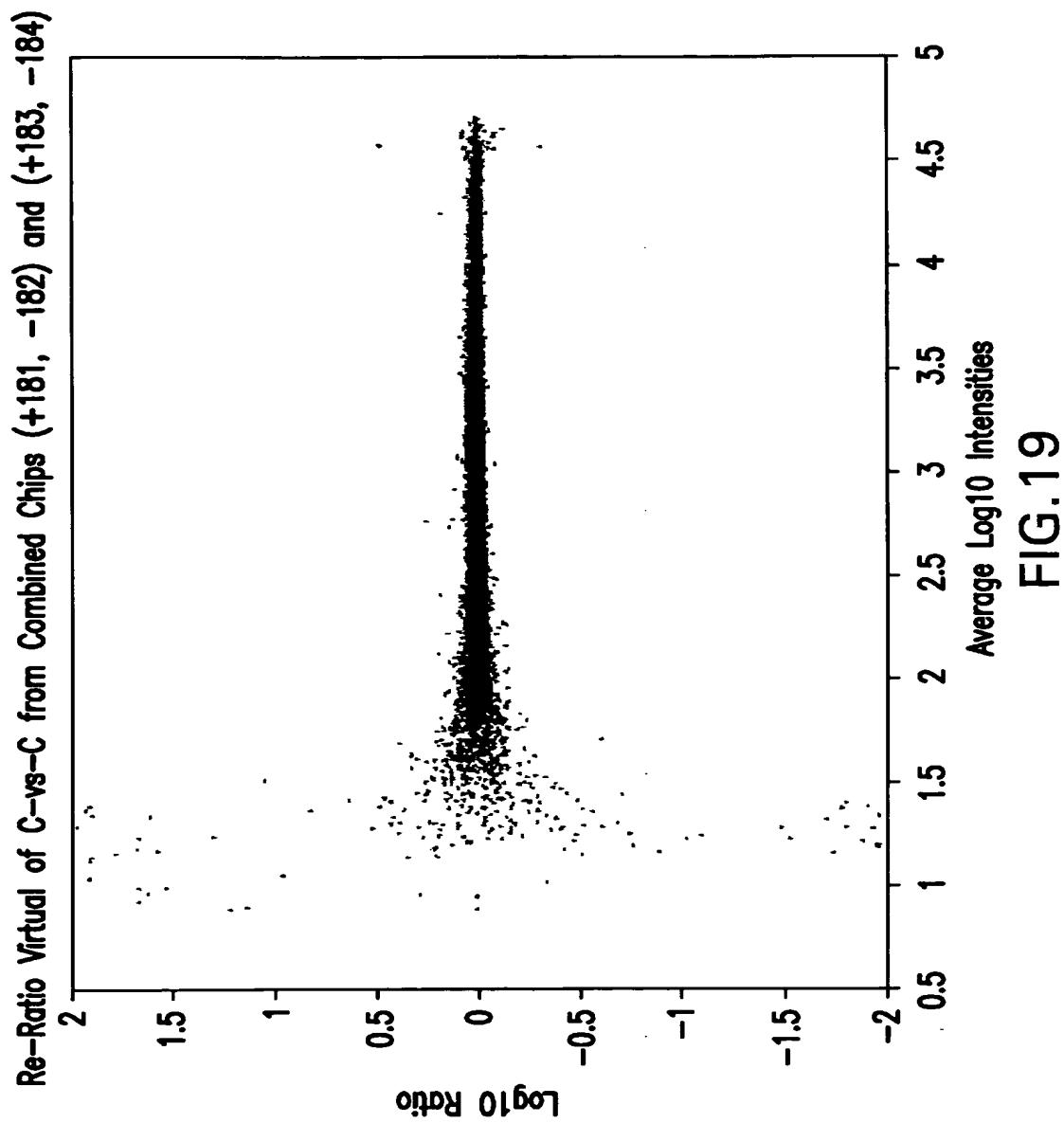
FIG. 18

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Inventor: L. Weng

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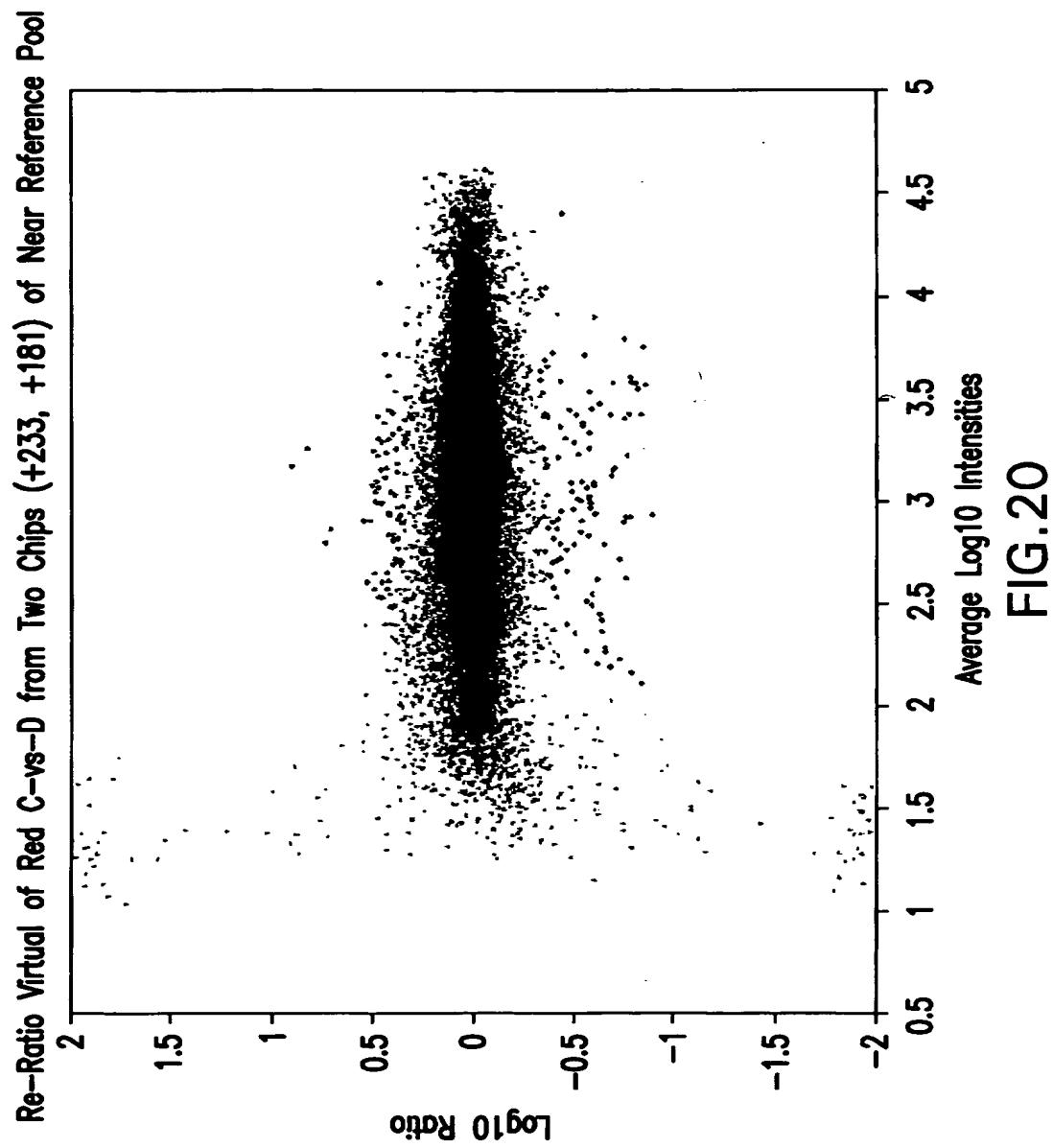


Appl. No. 10/800,340; Attorney Docket No. 9301-228

Inventor: L. Weng

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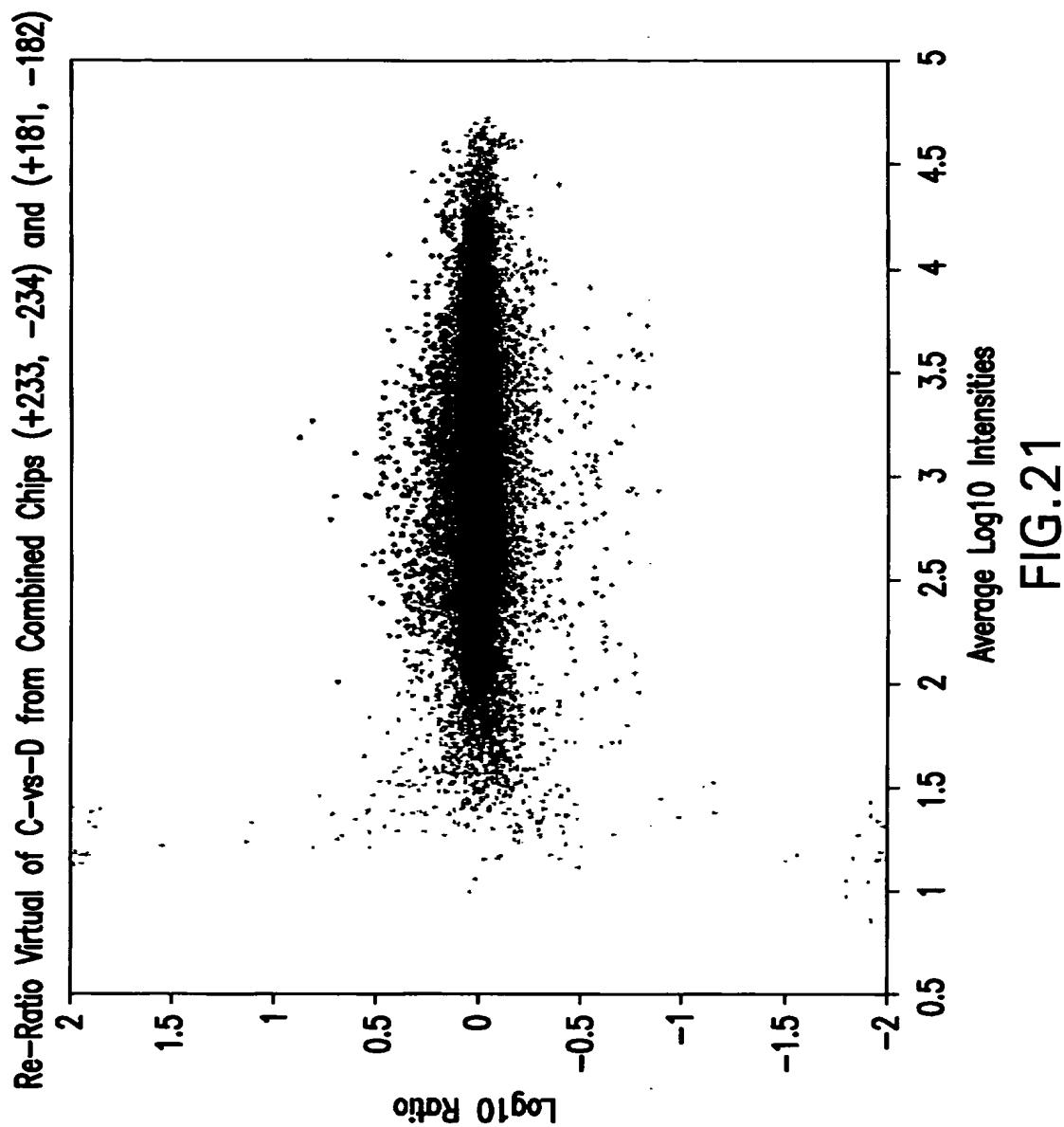


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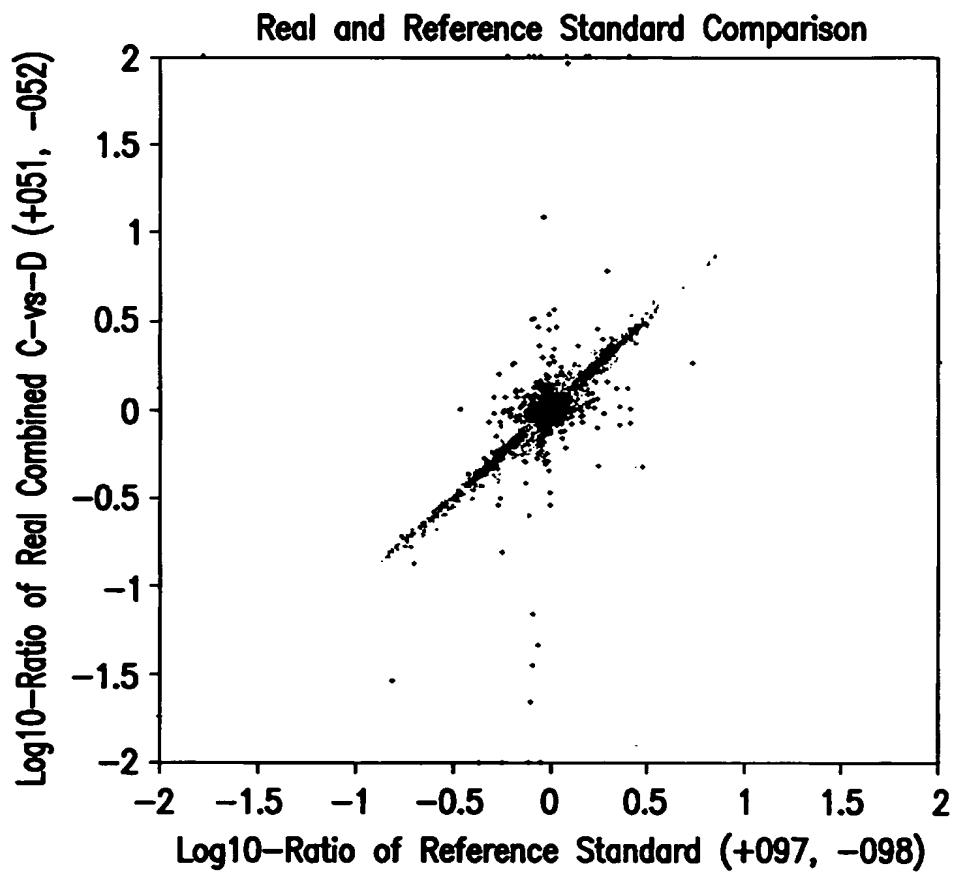
Inventor: L. Weng

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Replacement Sheet



Replacement Sheet



Y Signature = 6.3 percent
X Signature = 6.02 percent
Y Only = 0.738 percent
X Only = 0.458 percent
Signature in Both = 5.56 percent
Signature Union Correlation = 0.997

FIG.22

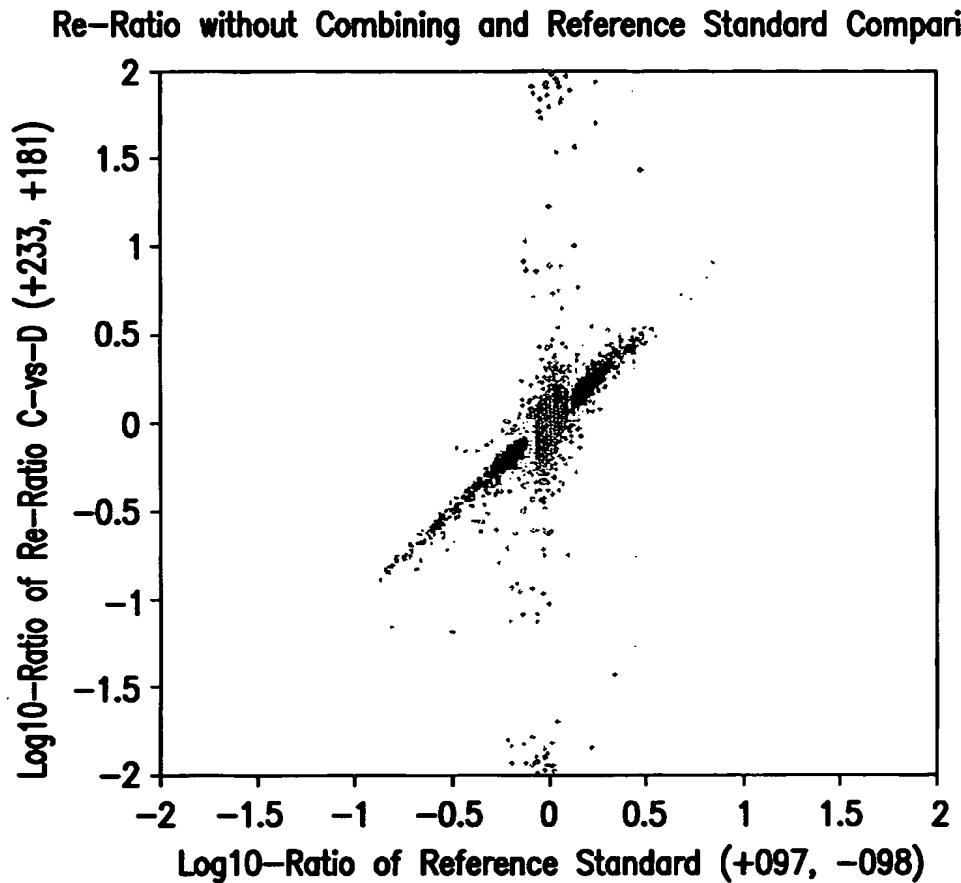


FIG.23

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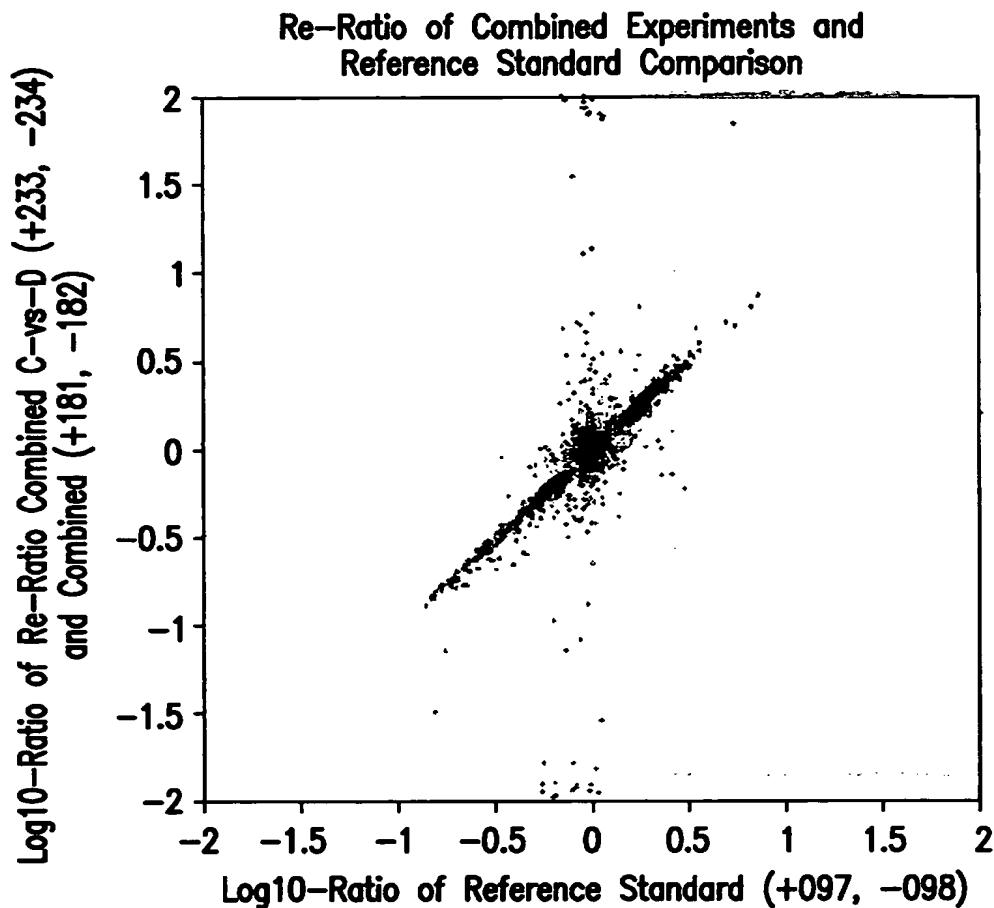


FIG.24

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Inventor: L. Weng
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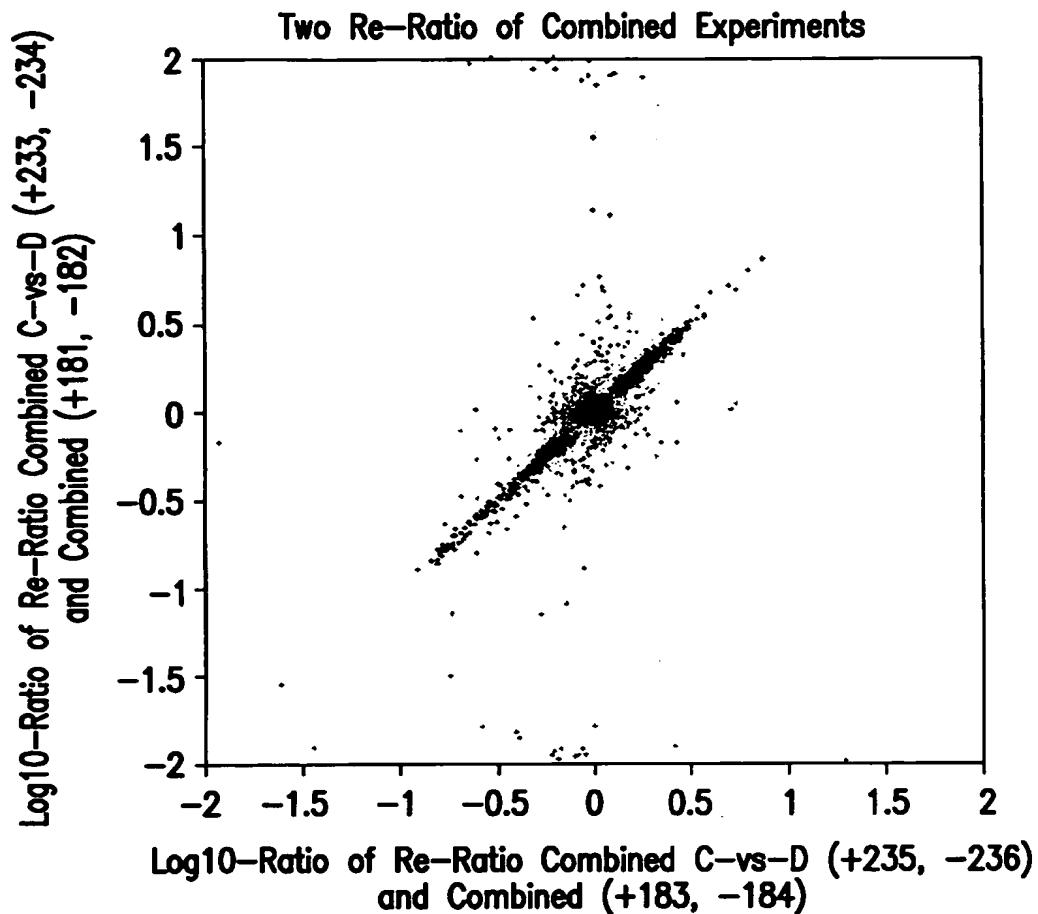


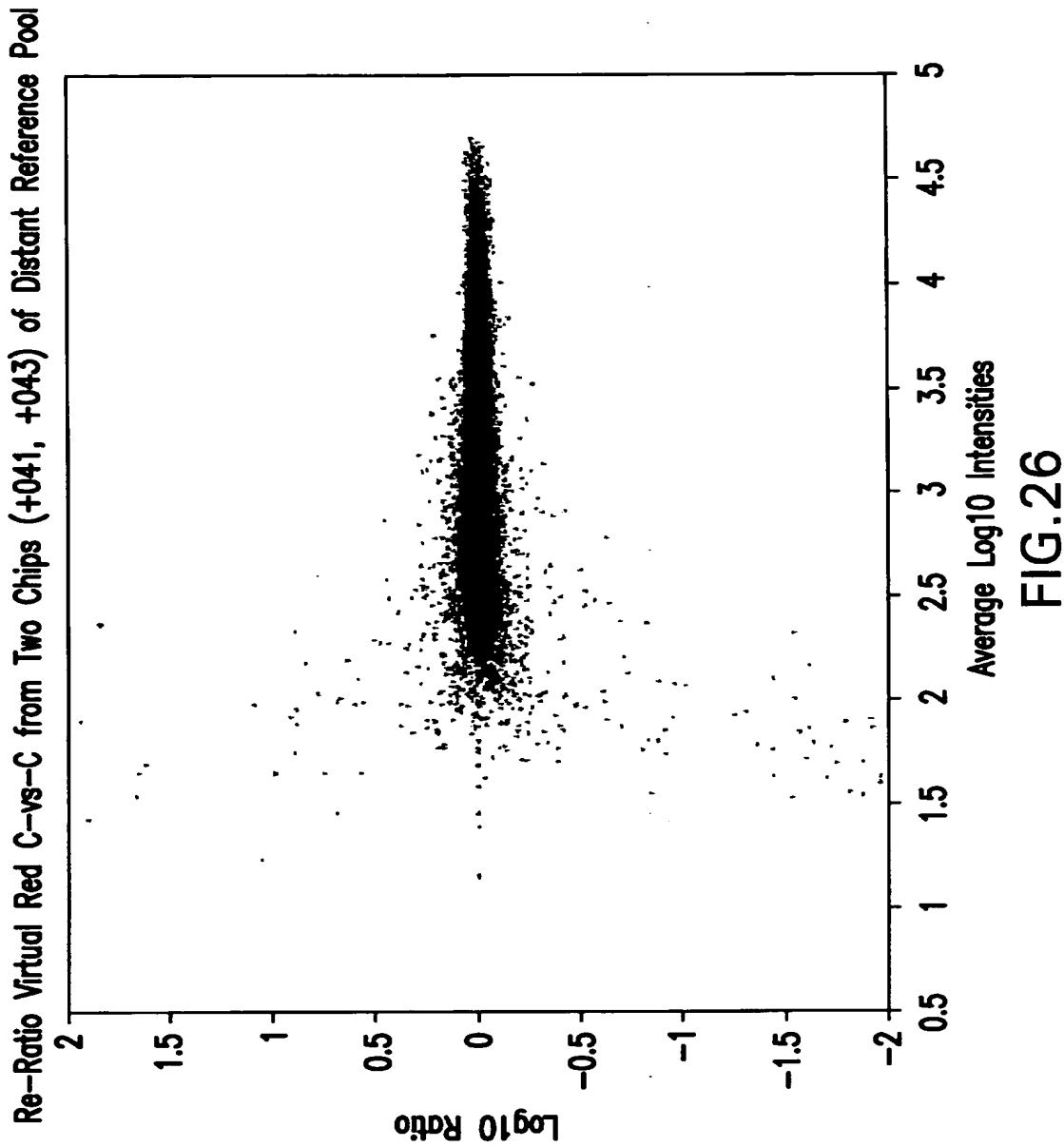
FIG. 25

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Inventor: L. Weng

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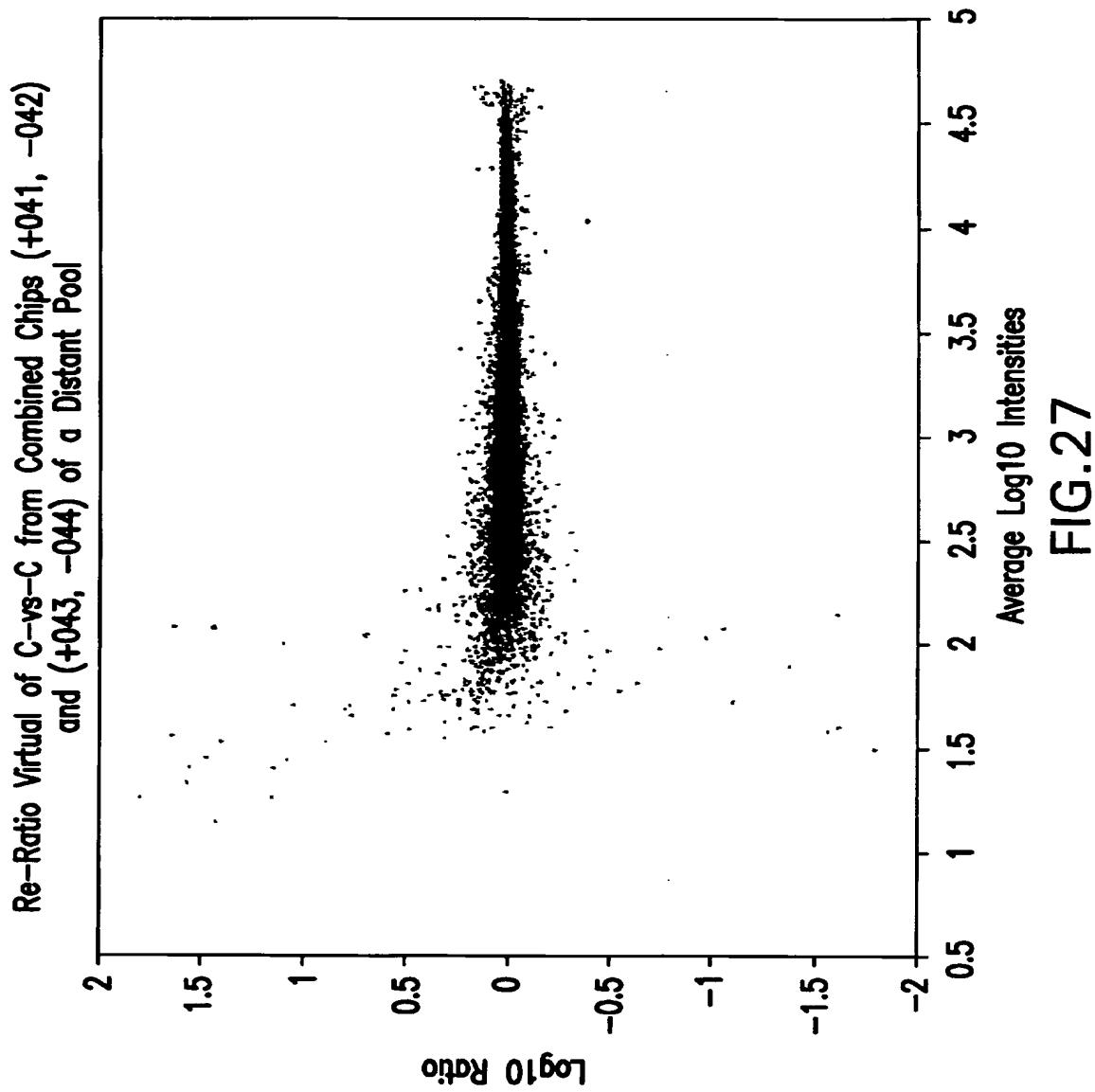


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Inventor: L. Weng

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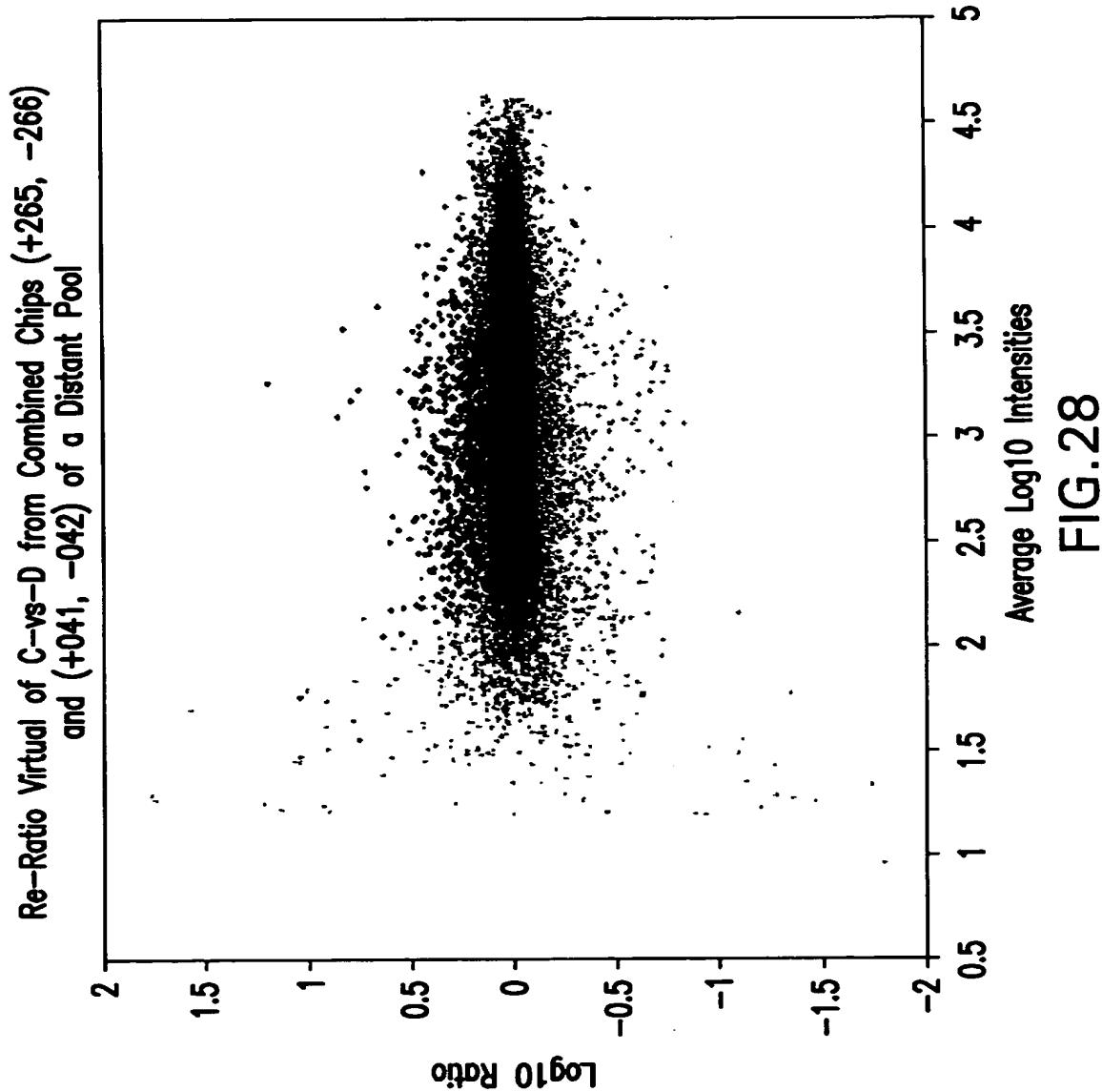


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Inventor: L. Weng

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Replacement Sheet

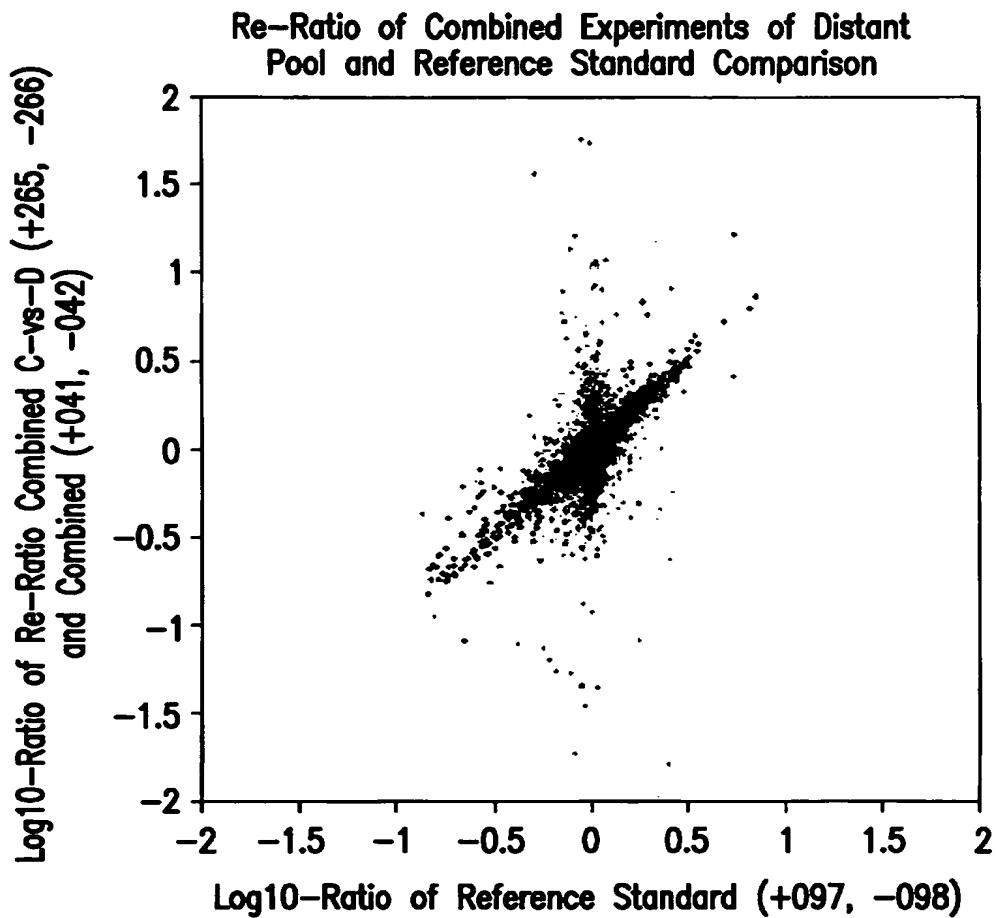


FIG.29

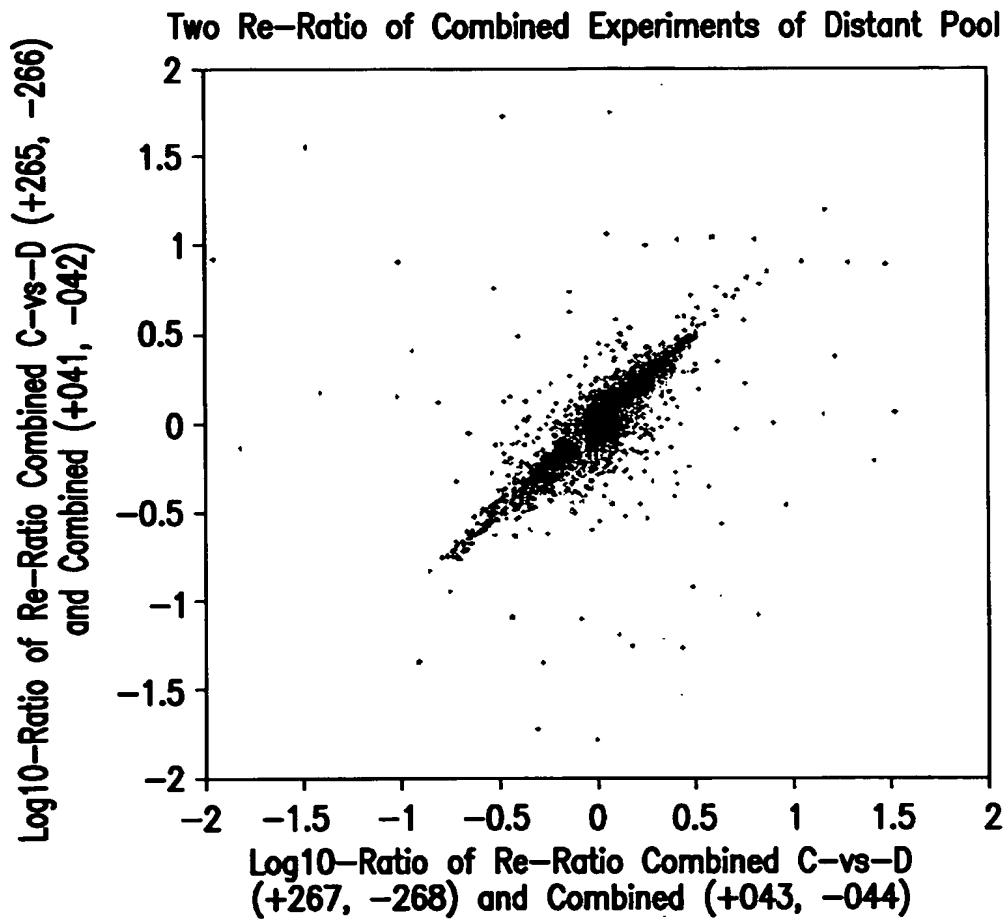


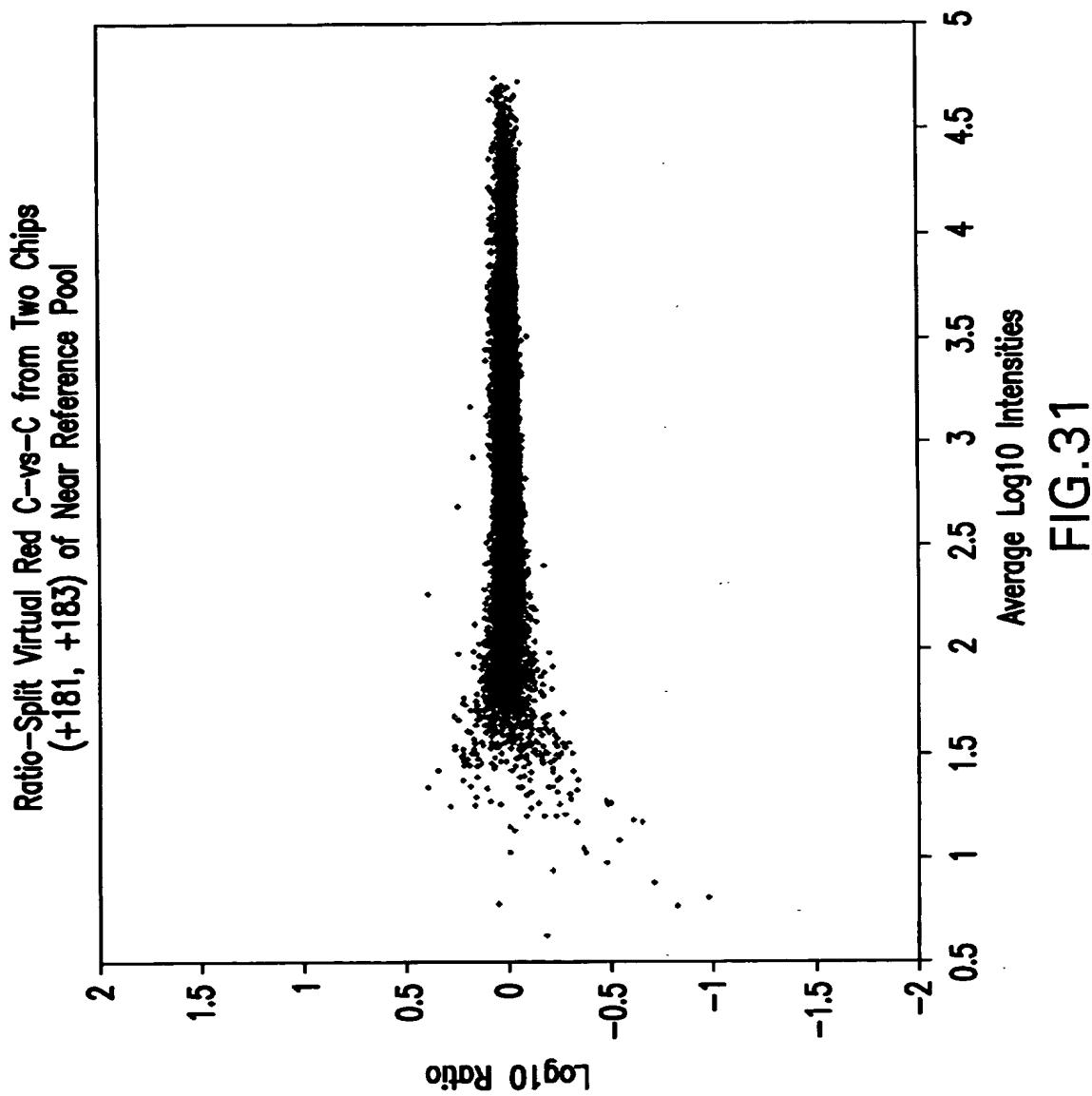
FIG.30

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Appl. No. 10/800,340; Attorney Docket No. 9301-228

Inventor: L. Weng

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Replacement Sheet

Ratio-Split Virtual of Different Color C-vs-C from Two
Chips (+181, -182) of Near Reference Pool

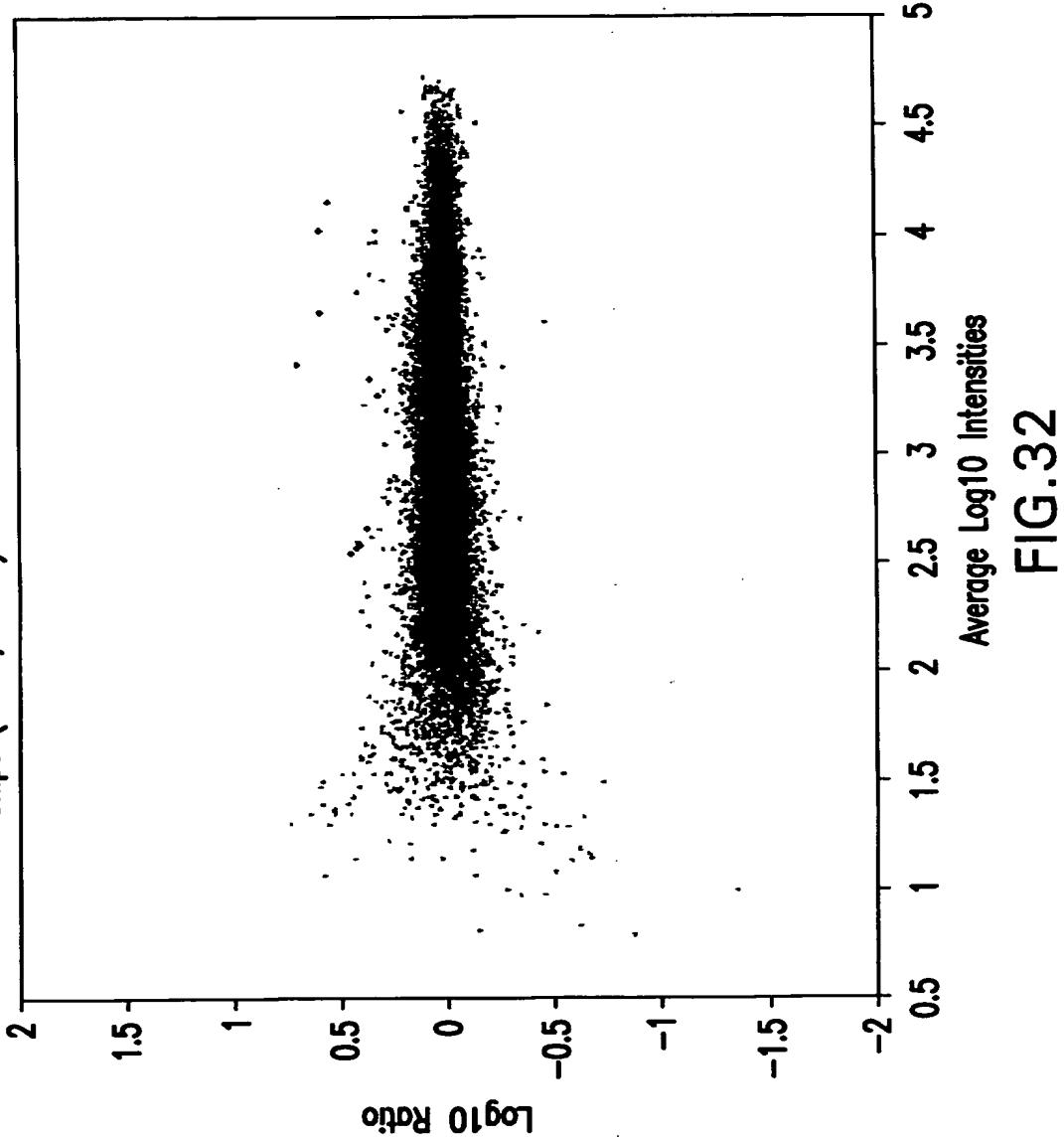


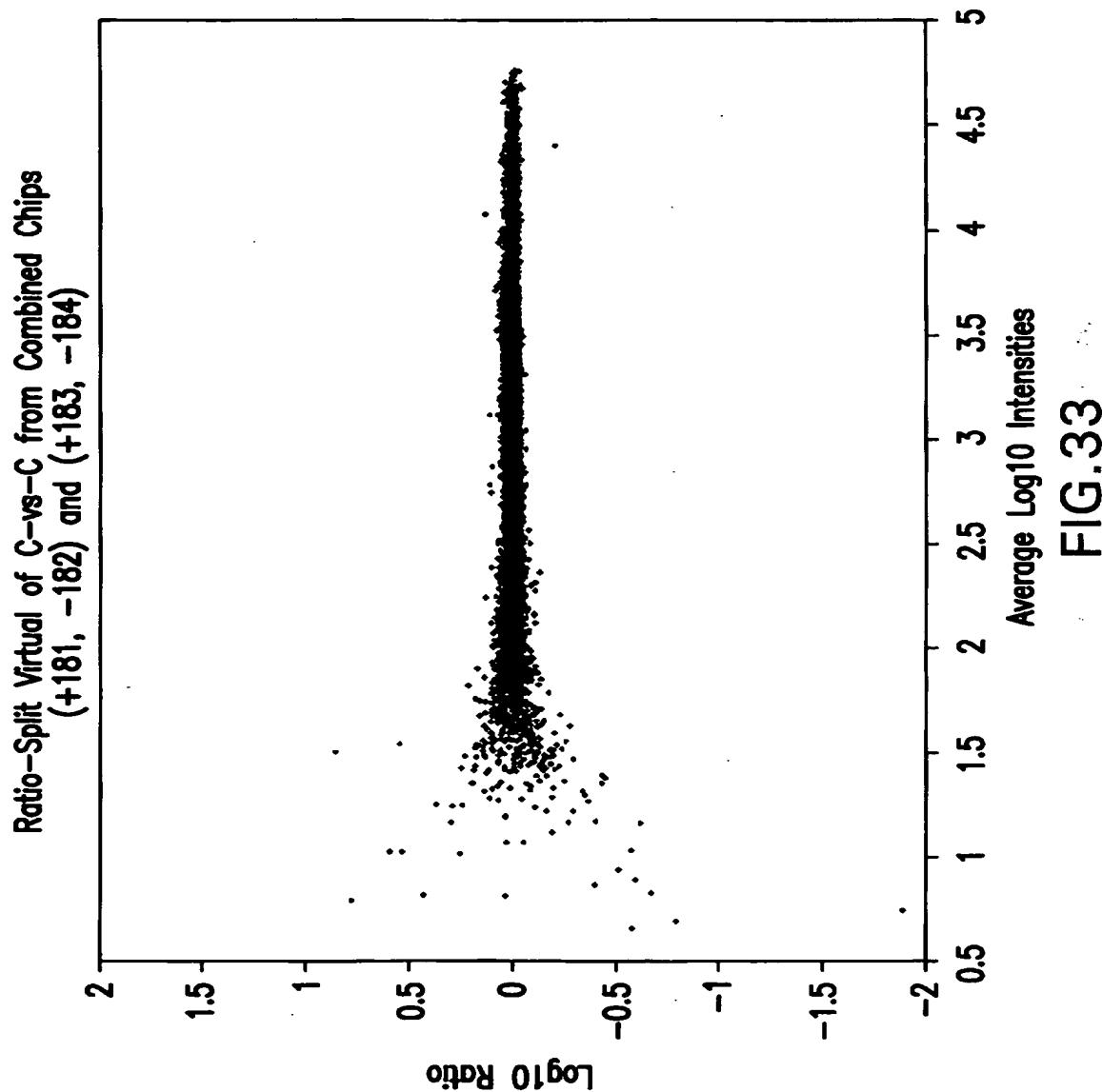
FIG. 32

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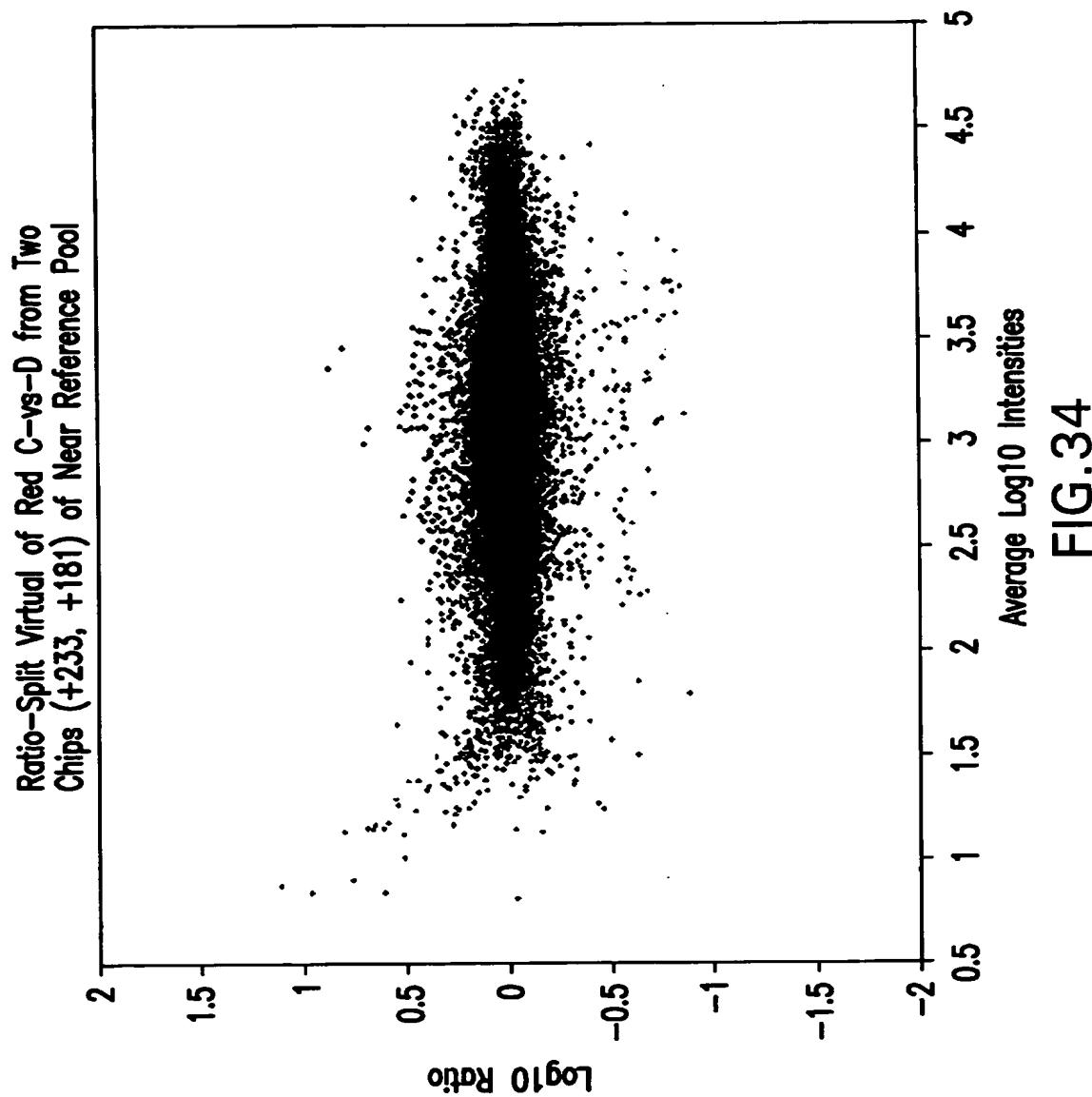
Inventor: L. Weng

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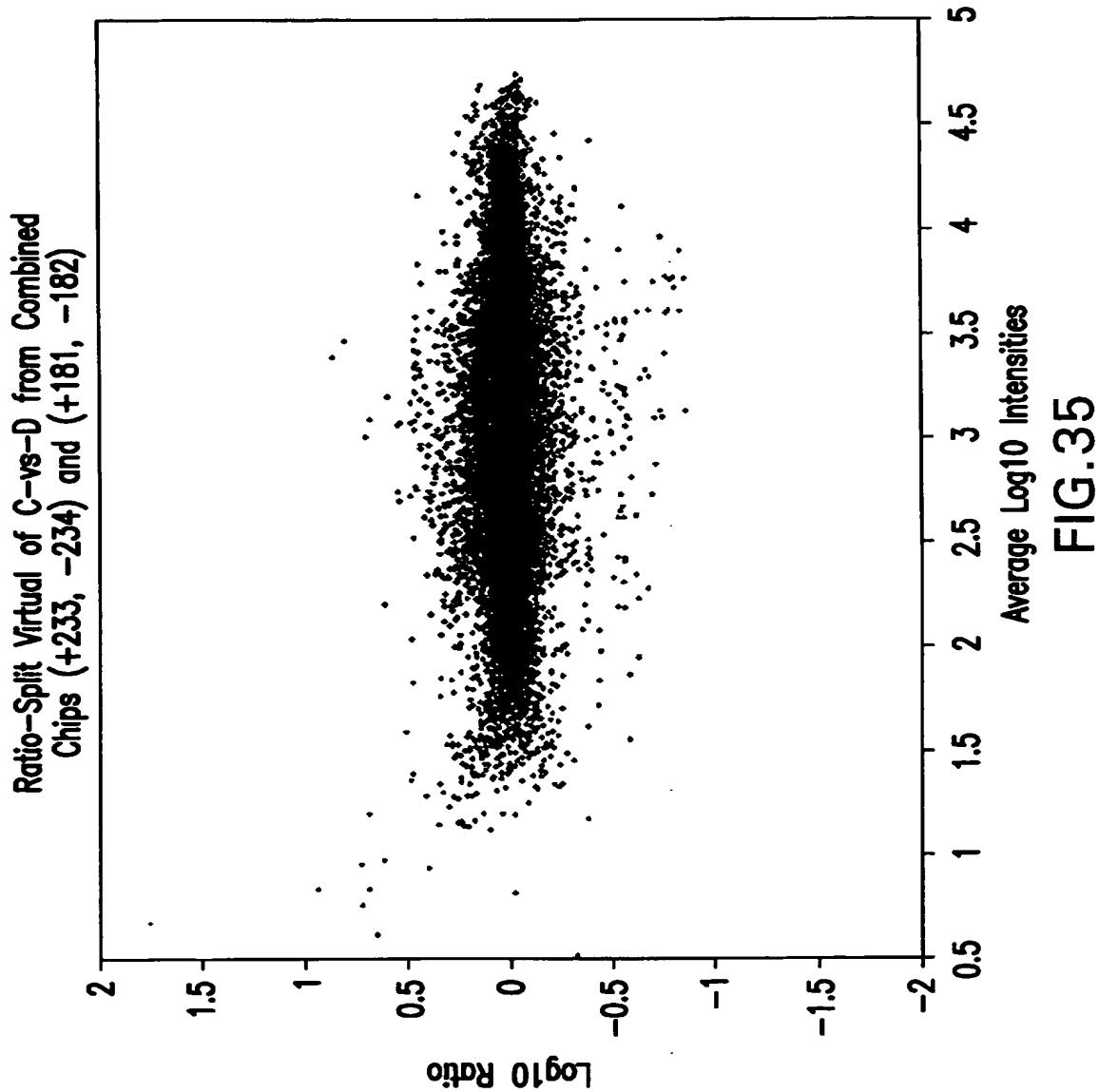
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Replacement Sheet

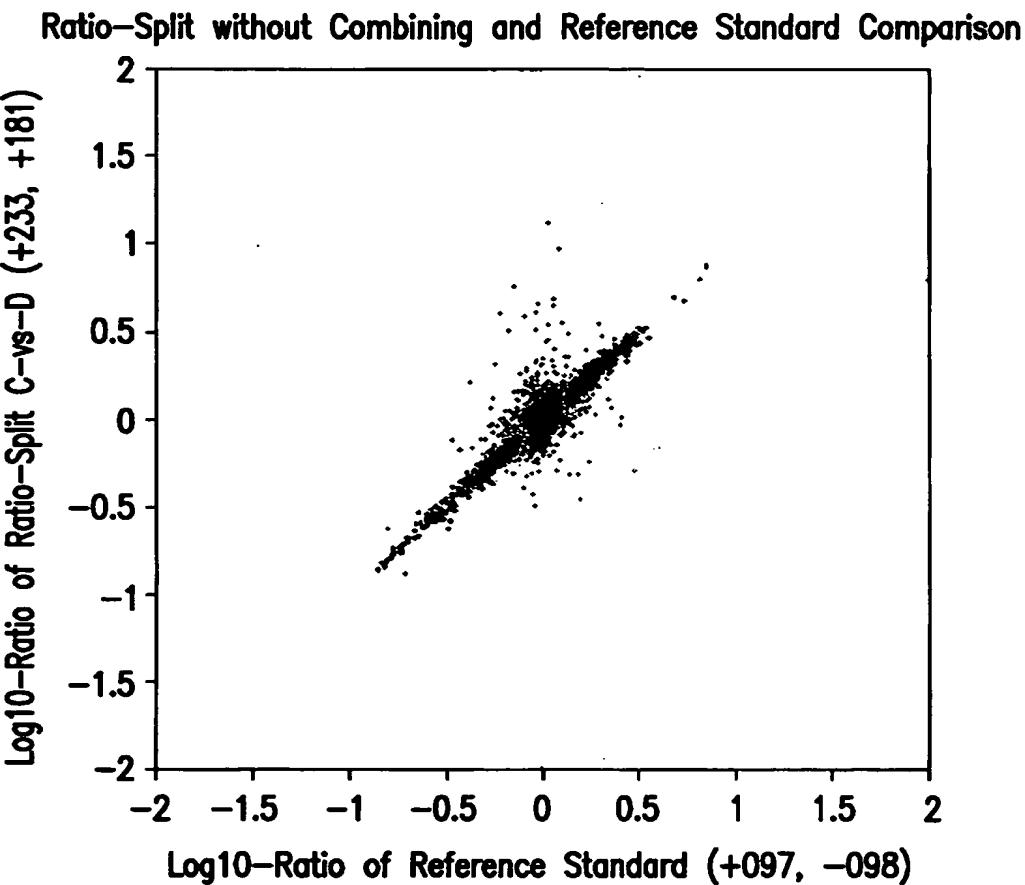
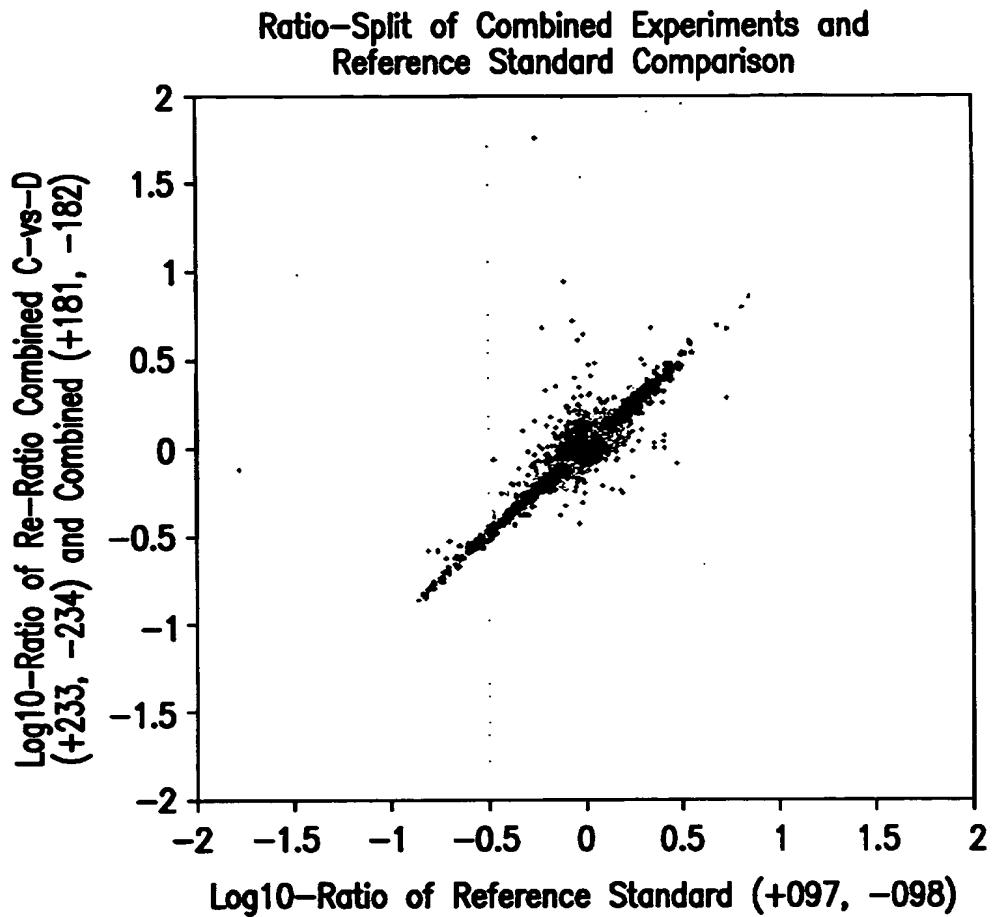


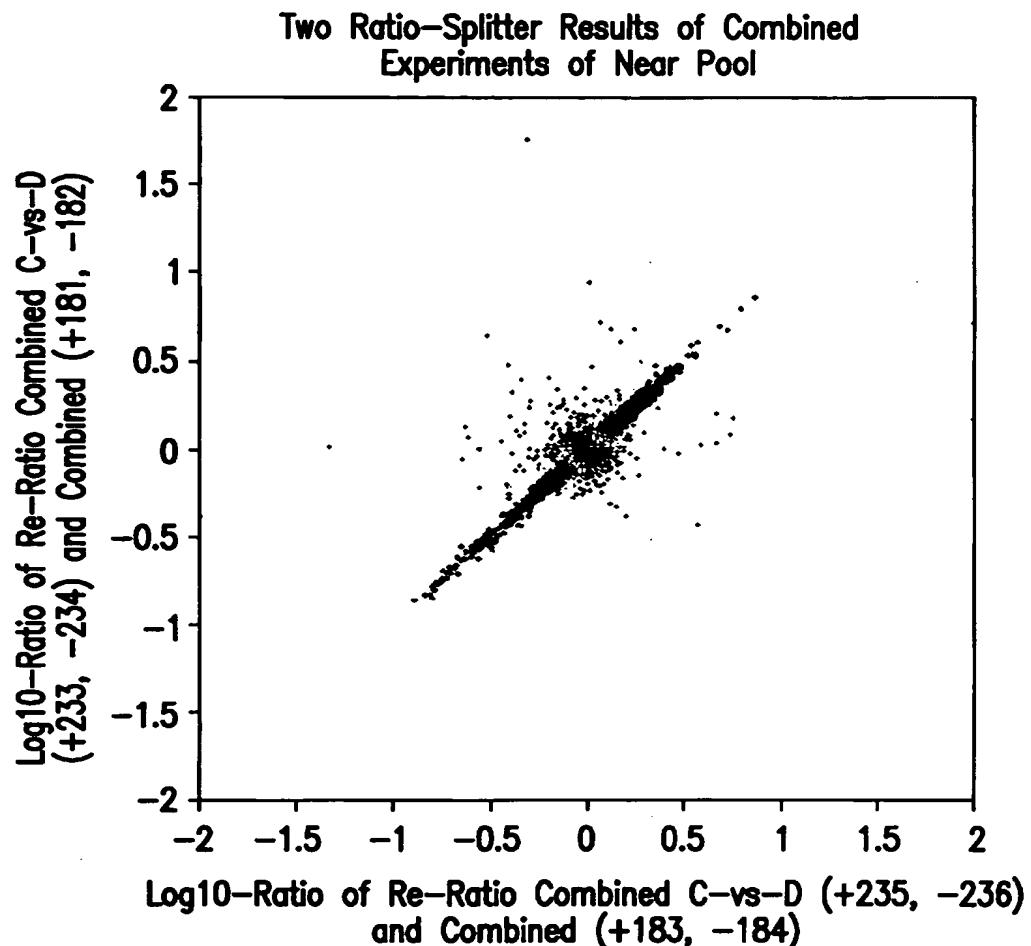
FIG. 36

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Y Signature = 7.15 percent
X Signature = 6.02 percent
Y Only = 1.77 percent
X Only = 0.641 percent
Signature in Both = 5.38 percent
Signature Union Correlation = 0.995

FIG.37



Y Signature = 7.15 percent
X Signature = 7.27 percent
Y Only = 1.02 percent
X Only = 1.15 percent
Signature in Both = 6.13 percent
Signature Union Correlation = 0.994

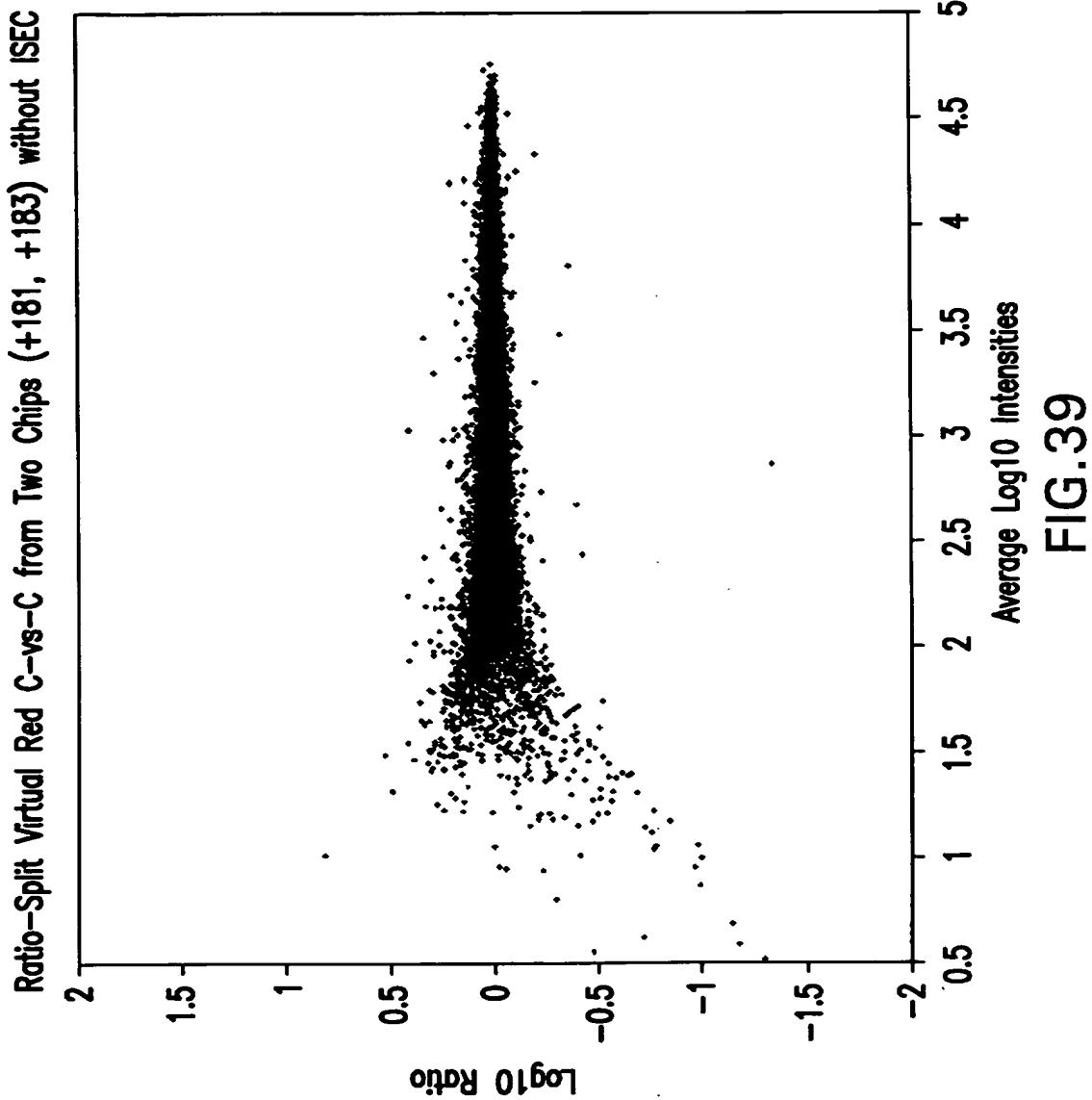
FIG.38

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Inventor: L. Weng

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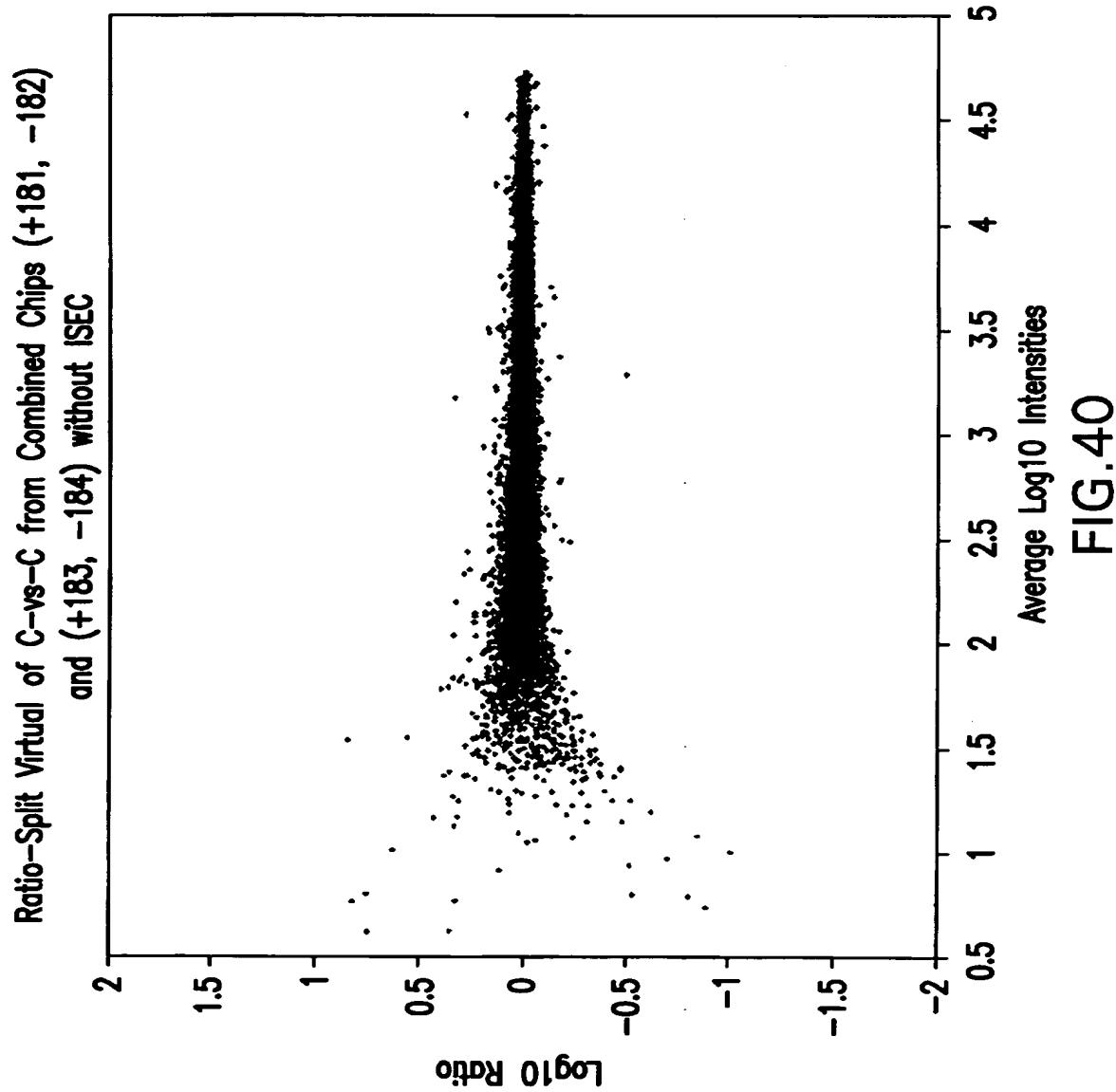


Appl. No. 10/800,340; Attorney Docket No. 9301-228

Inventor: L. Weng

Response to August 30, 2007 Office Action

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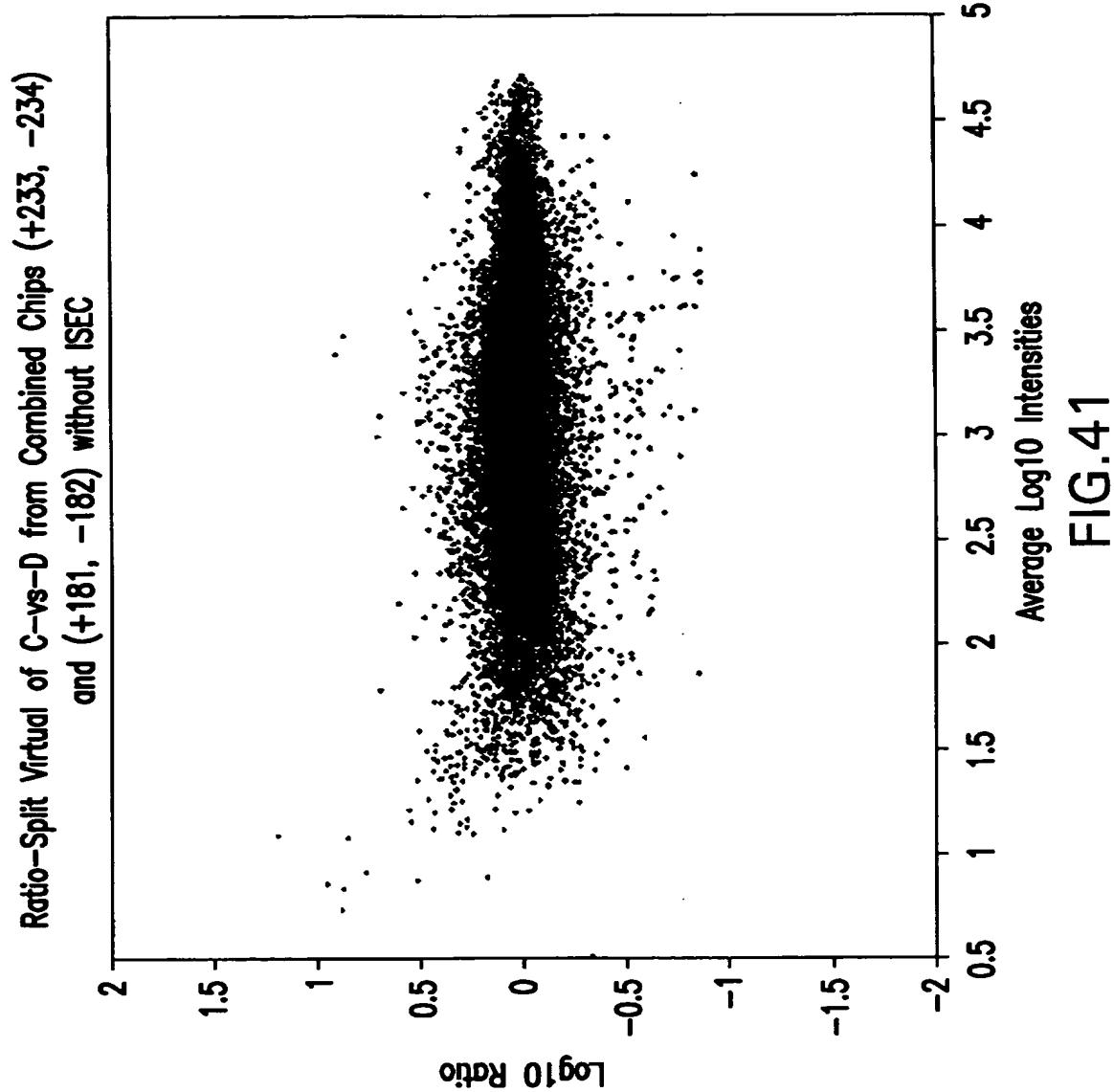


Appl. No. 10/800,340; Attorney Docket No. 9301-228

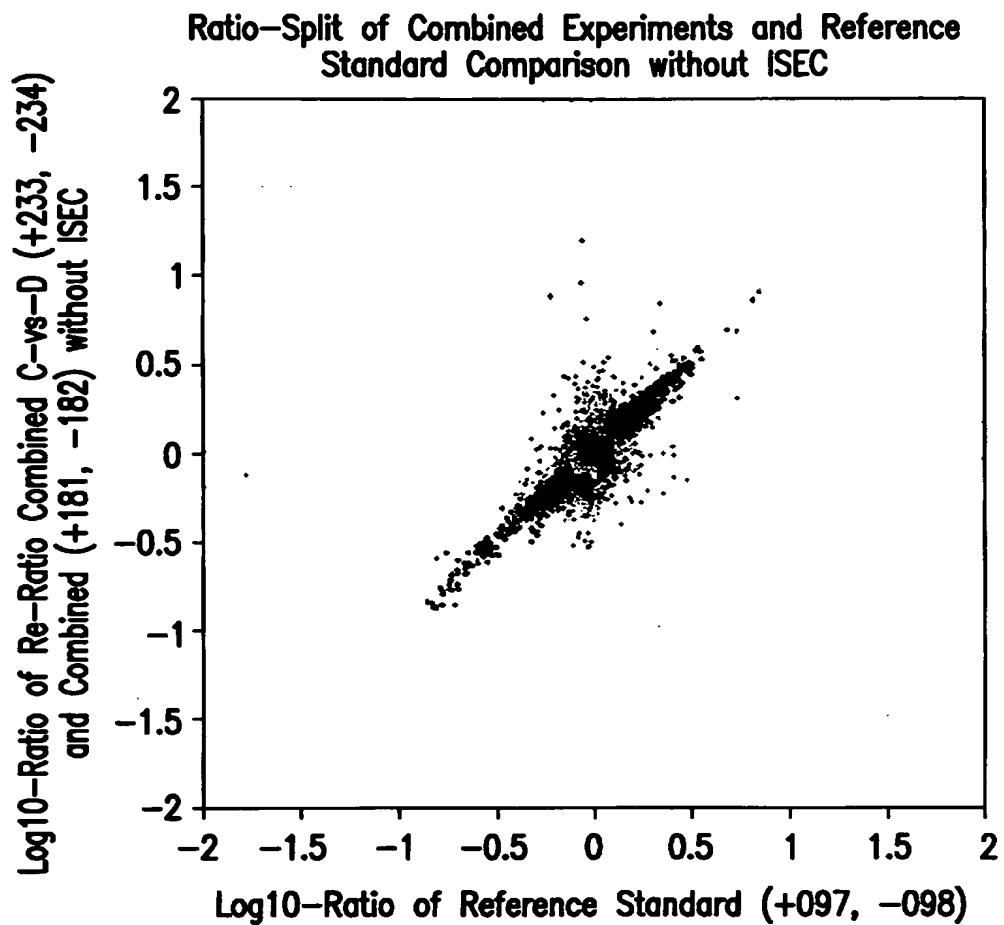
Inventor: L. Weng

Response to August 30, 2007 Office Action

Replacement Sheet



Replacement Sheet



Y Signature = 6.49 percent

X Signature = 6.02 percent

Y Only = 1.97 percent

X Only = 1.5 percent

Signature in Both = 4.52 percent

Signature Union Correlation = 0.968

FIG.42

Replacement Sheet

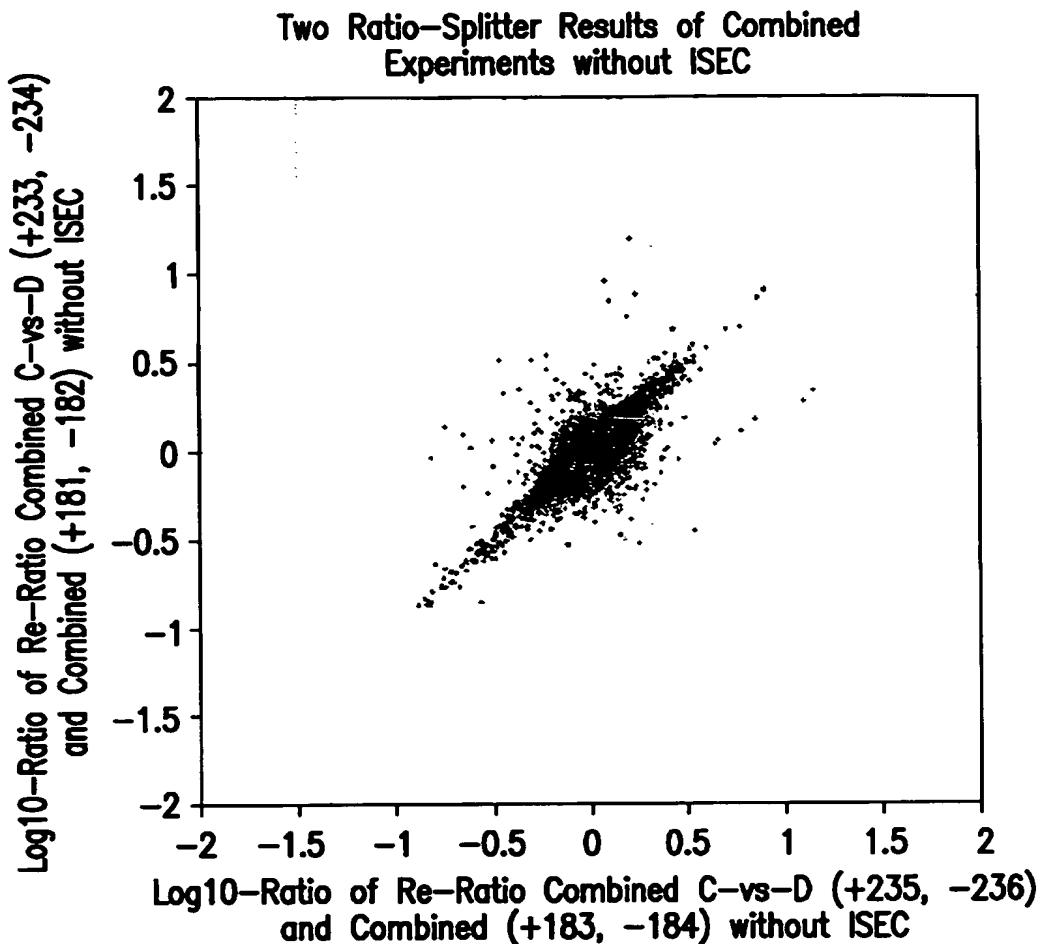


FIG.43

Replacement Sheet

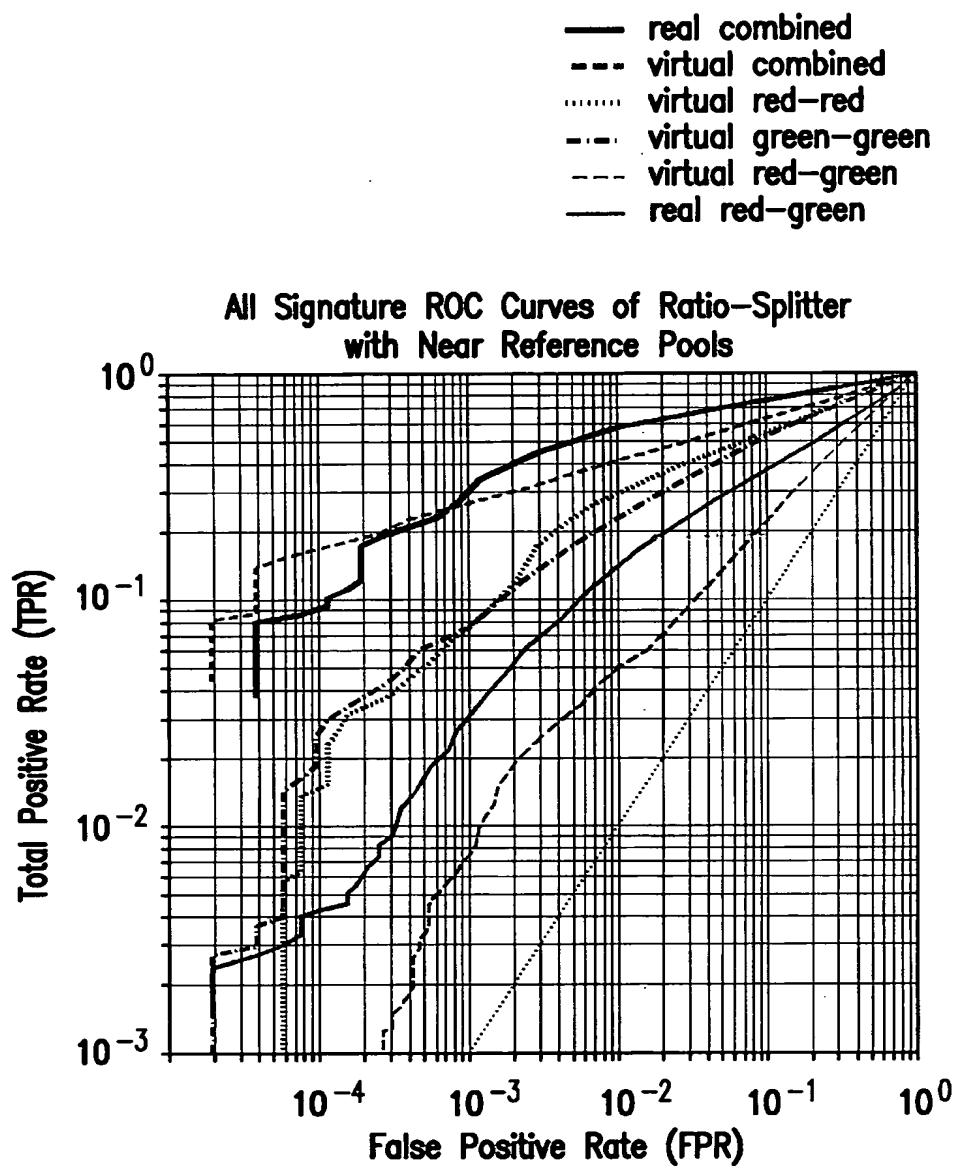


FIG.44A

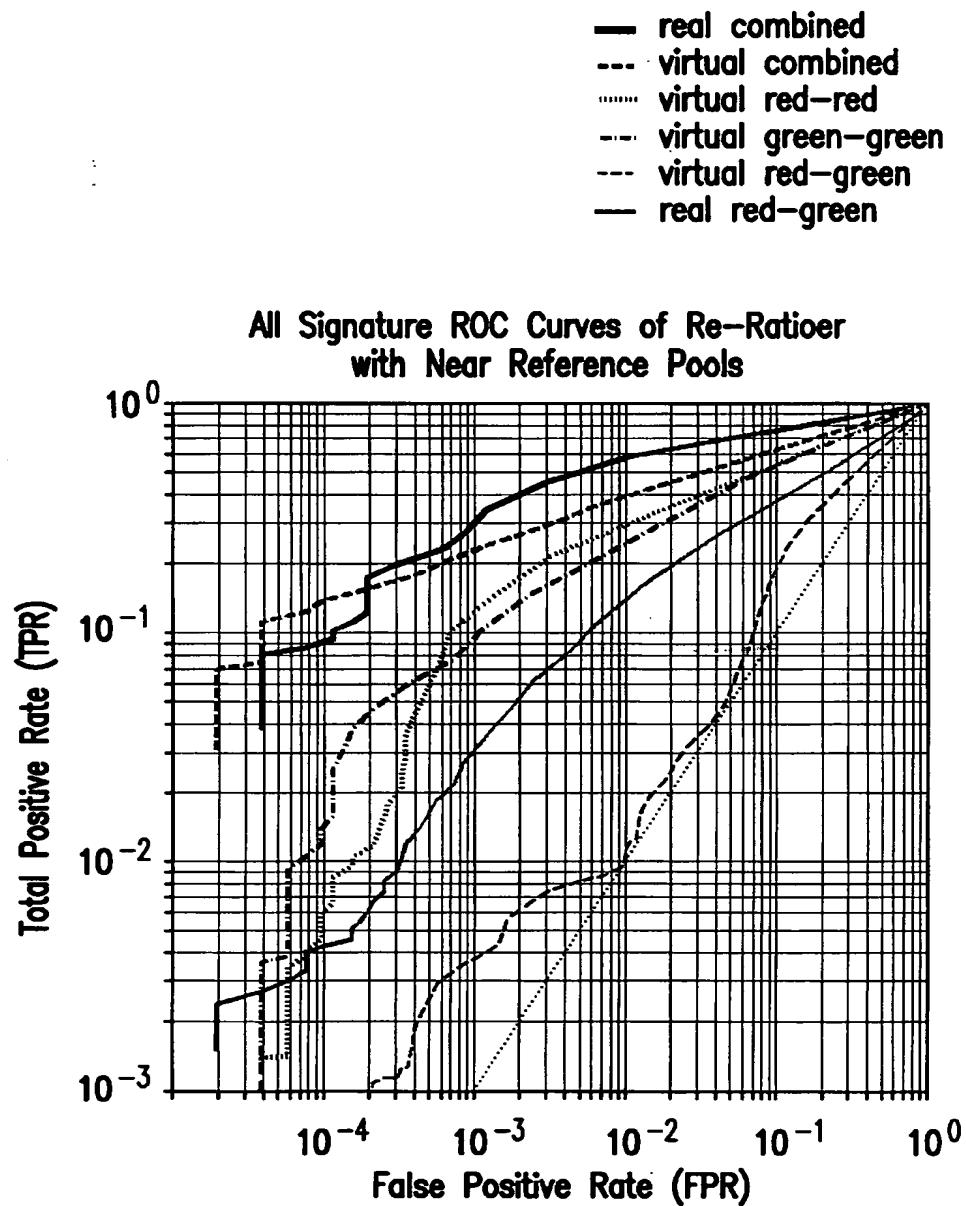


FIG.44B

Appl. No. 10/800,340; Attorney Docket No. 9301-228

Inventor: L. Weng

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Replacement Sheet

— real combined
--- virtual combined
..... virtual red-red
... virtual green-green
--- virtual red-green
— real red-green

**Weak Signature ROC Curves of Ratio-Splitter
with Near Reference Pools**

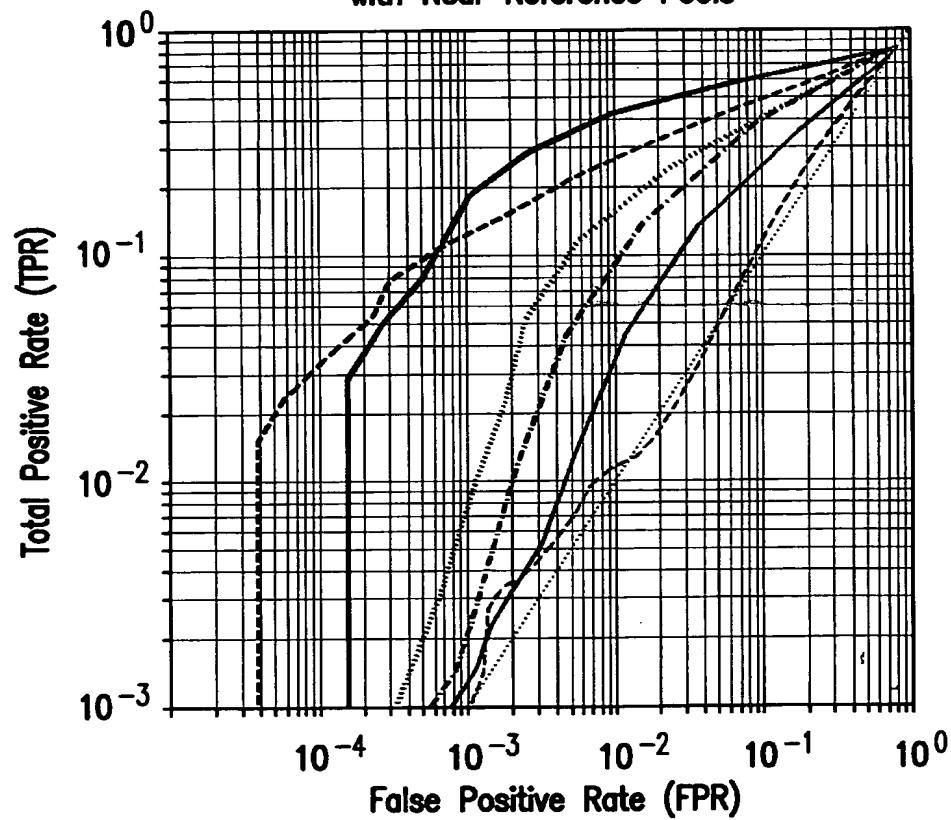


FIG.45A

Replacement Sheet

— real combined
--- virtual combined
..... virtual red-red
--- virtual green-green
--- virtual red-green
— real red-green

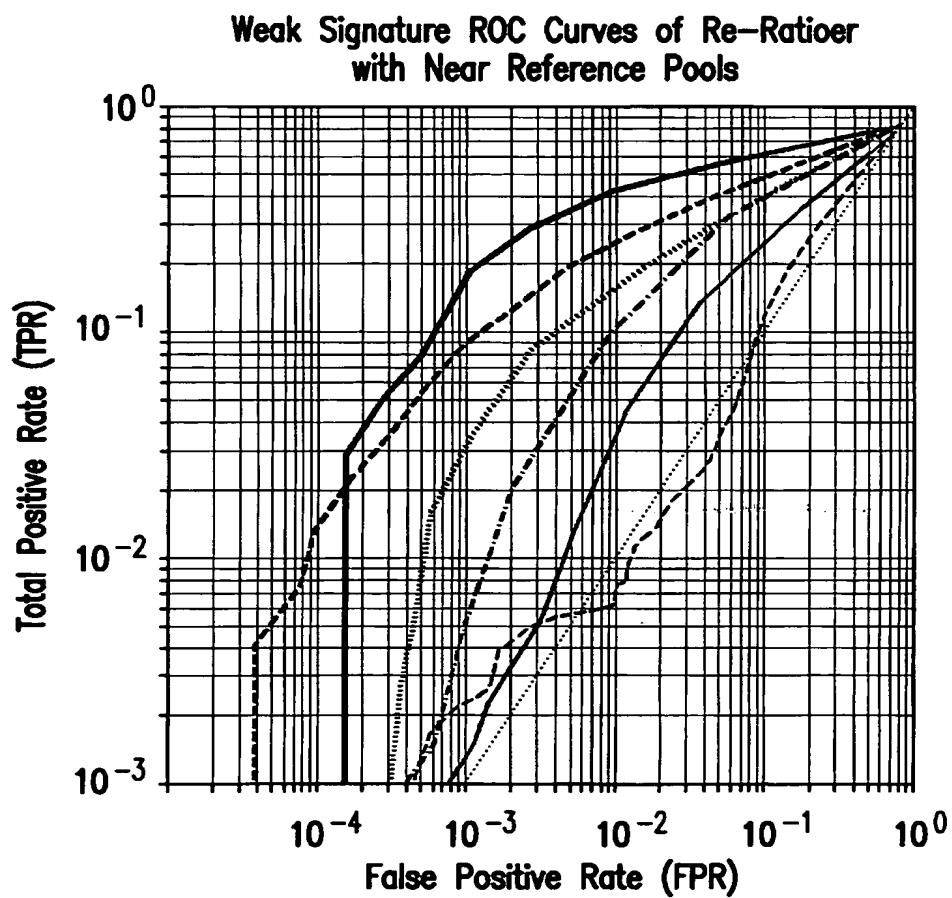


FIG.45B

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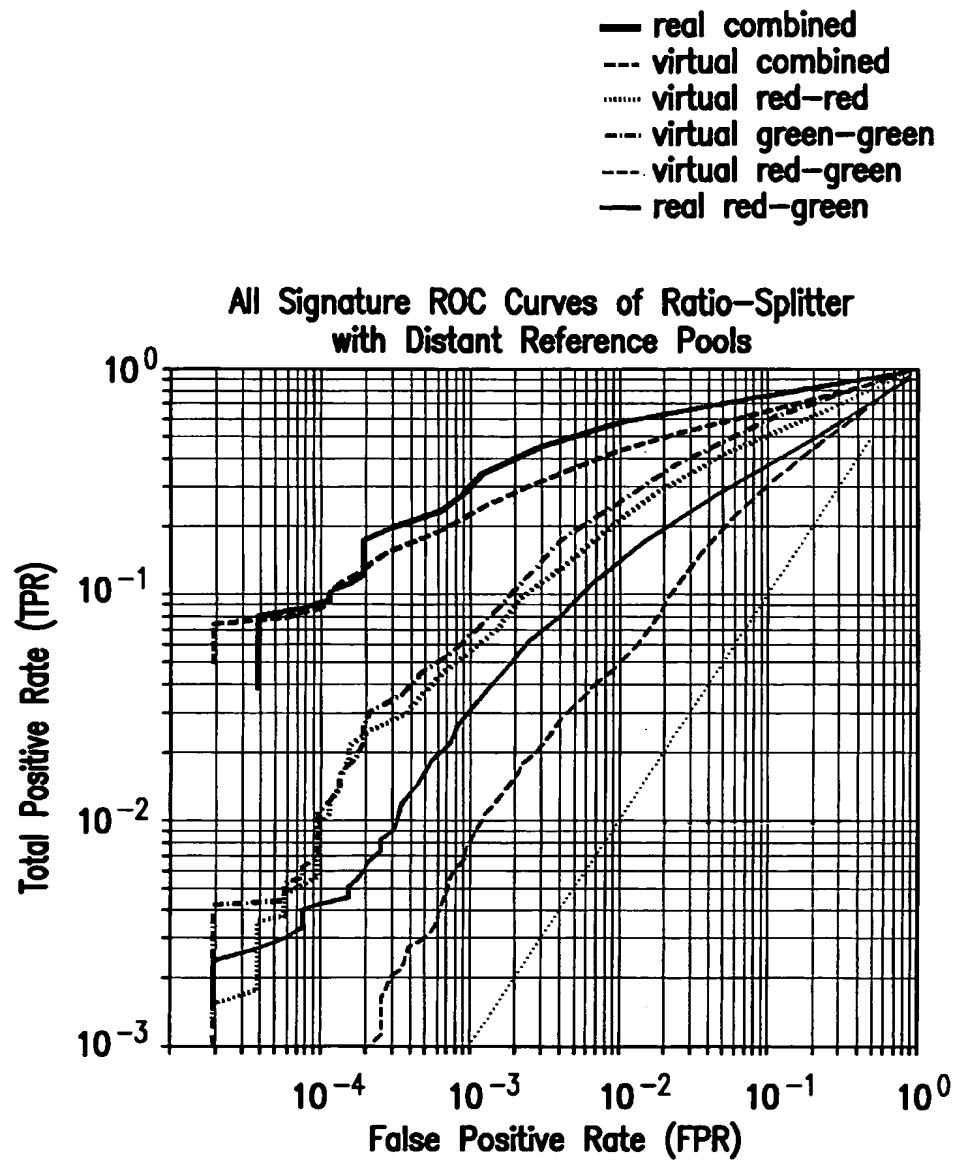


FIG.46A

Replacement Sheet

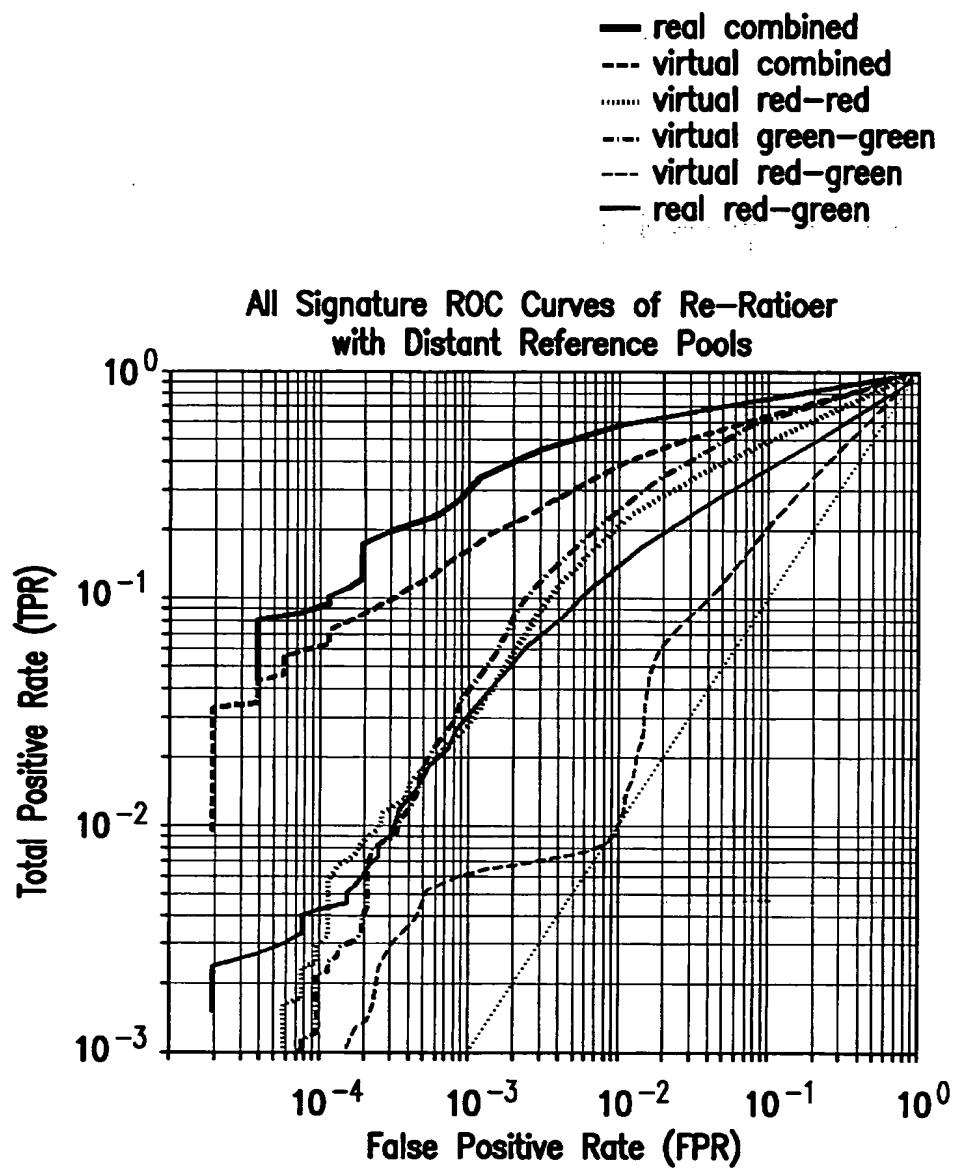


FIG.46B

Appl. No. 10/800,340; Attorney Docket No. 9301-228

Inventor: L. Weng

Response to August 30, 2007 Office Action

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— real combined
--- virtual combined
..... virtual red-red
... virtual green-green
- - - virtual red-green
— real red-green

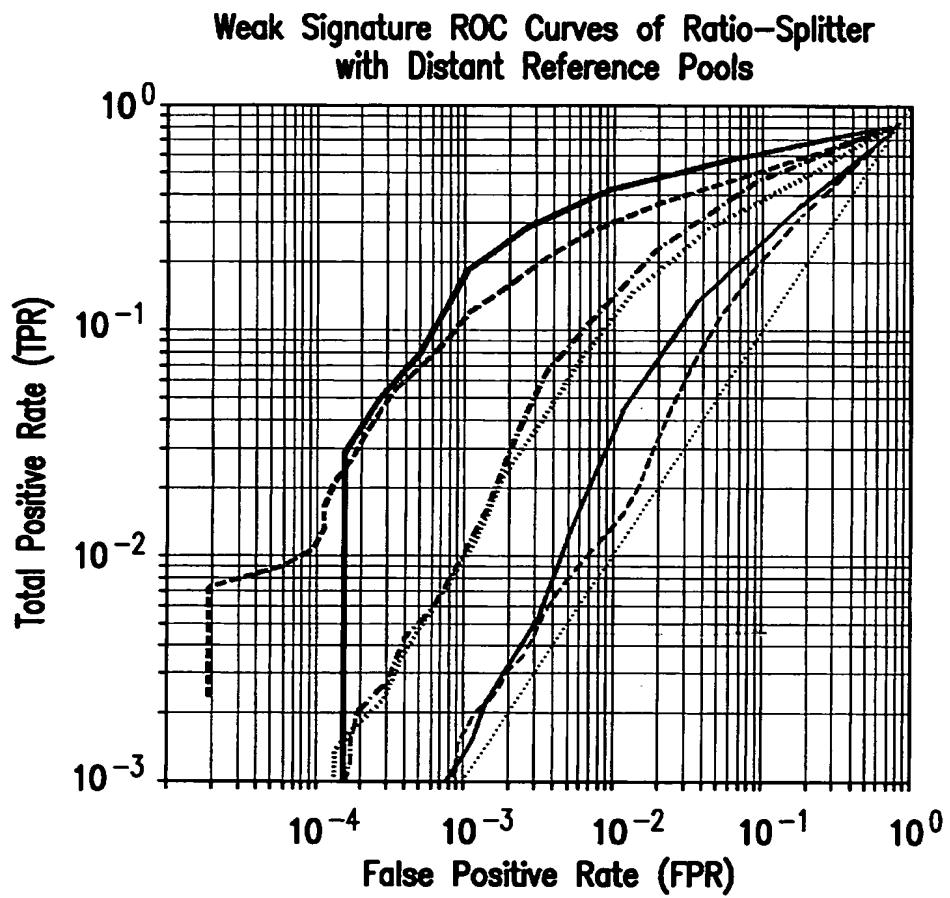


FIG.47A

Replacement Sheet

— real combined
--- virtual combined
.... virtual red-red
- - - virtual green-green
--- virtual red-green
— real red-green

**Weak Signature ROC Curves of Re-Ratioer
with Distant Reference Pools**

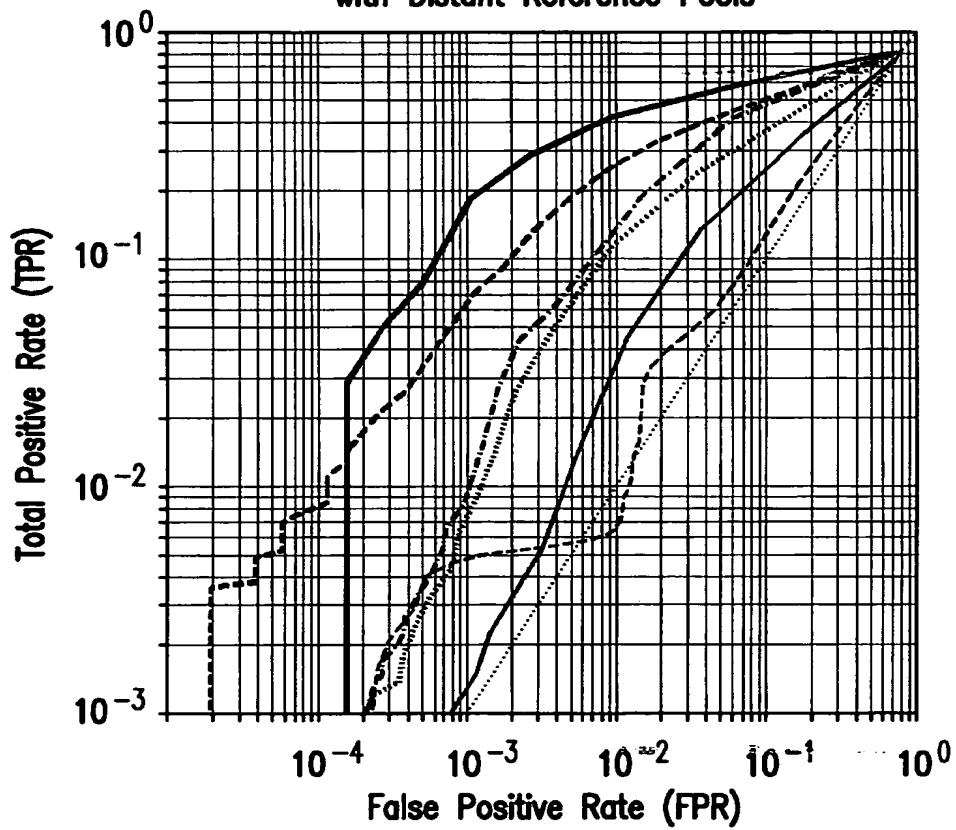


FIG.47B

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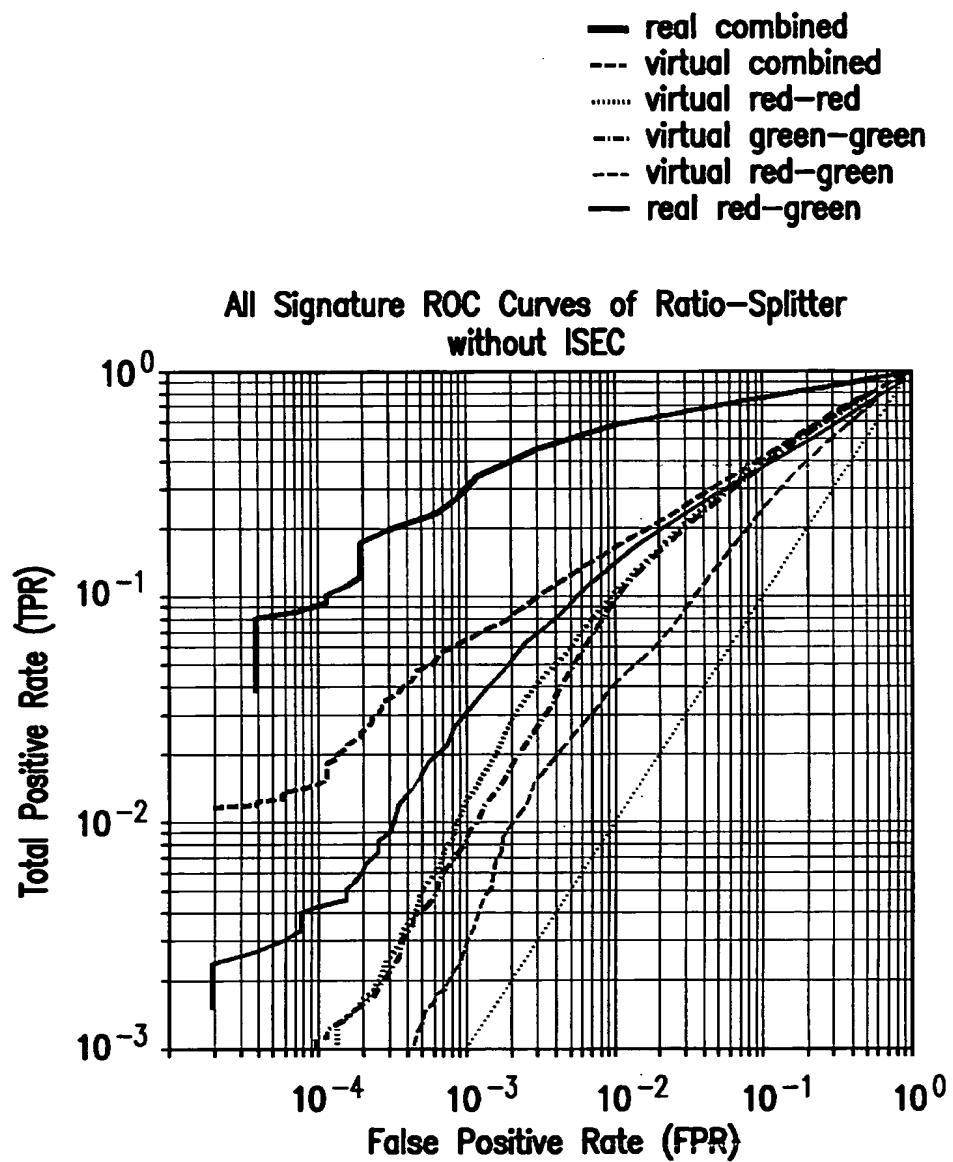


FIG.48A

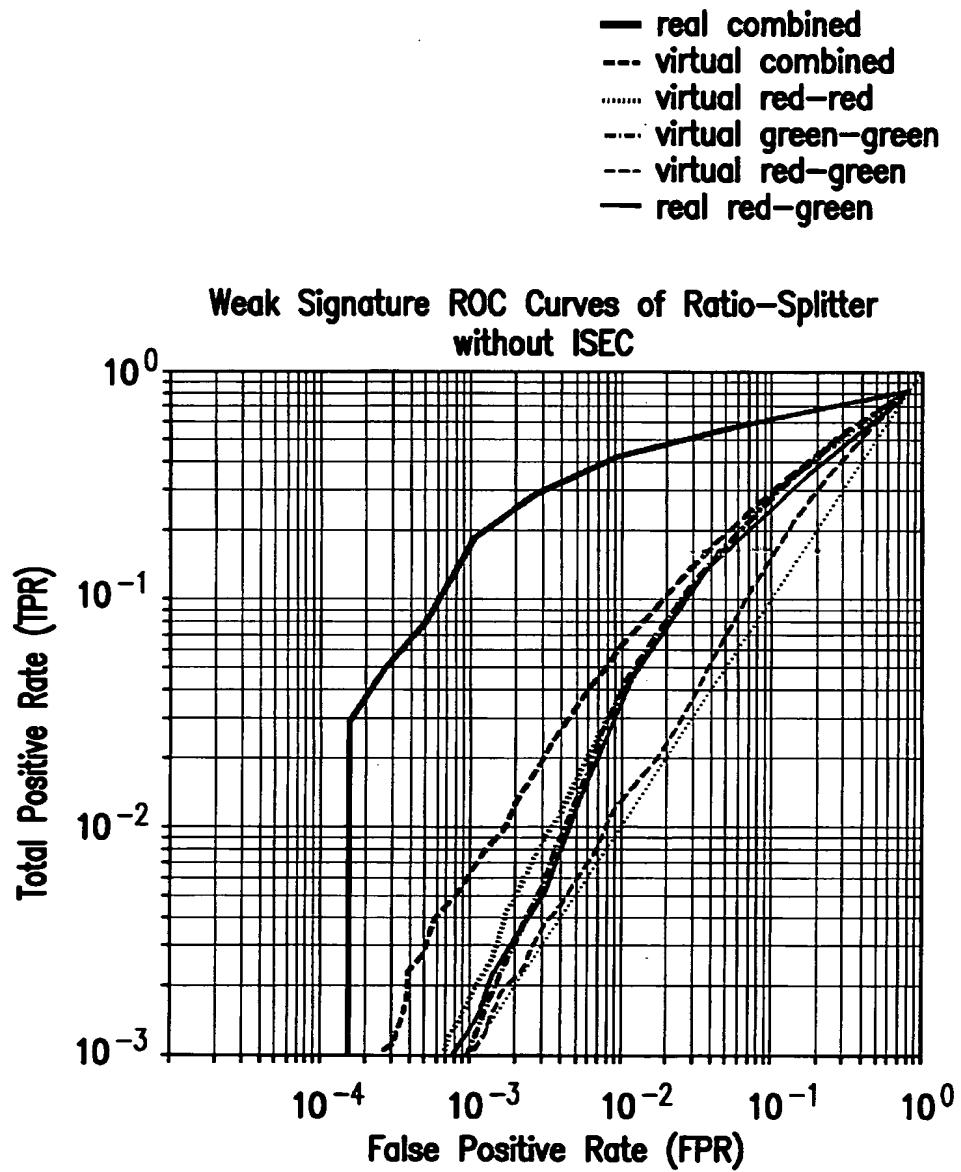


FIG.48B

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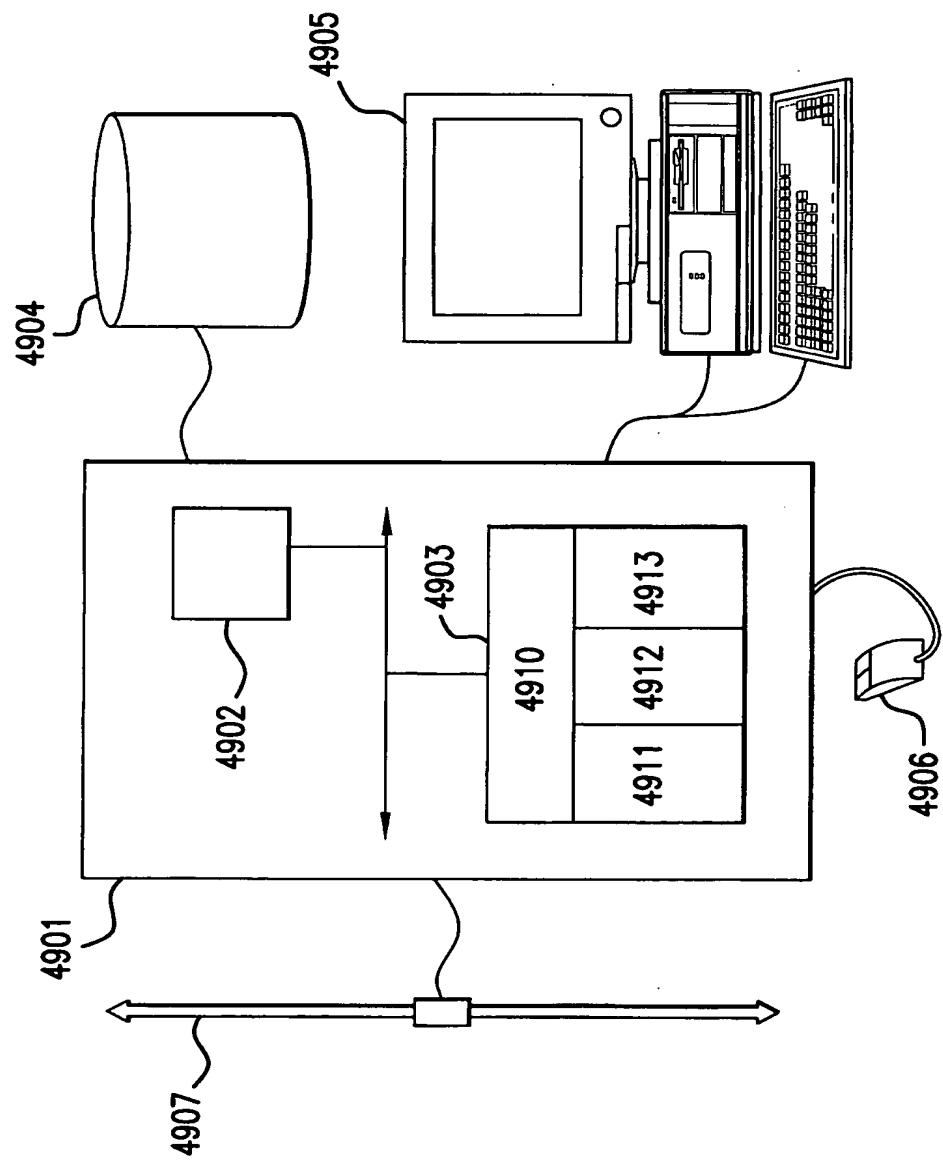


FIG.49